KidZone

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31 Fun-tastic Crafts, Games, & Recipes

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We hope you enjoy *Kid Zone* with your children. *Kid Zone* is a great way for families to spend *quality time* together—*creating, playing, cooking, learning, and exploring*. Take some time to plan the activities and to make sure you have all necessary supplies and ingredients to create all the fun this issue has to offer.

Not only is *Kid Zone* fun, it's educational. The best part is your kids won't even realize it. (Unless they're really smart and they can read this....stop reading this, kids!)

Through reading, problem-solving, measuring, working through steps, and combining information with hands-on activities, *kids will sharpen comprehension, math, and reading skills, boost their knowledge of science, nature, and the world around them, and expand their imaginations and creativity.*

Take some time with *Kid Zone* and your kids, and see what lasting memories and experiences you can create.

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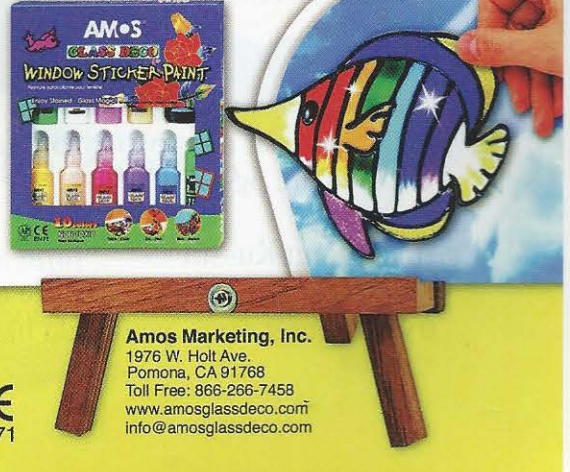

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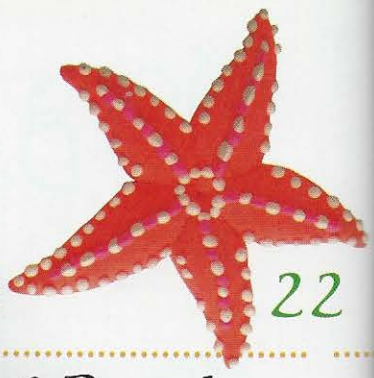

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Kid Zone™

Zones

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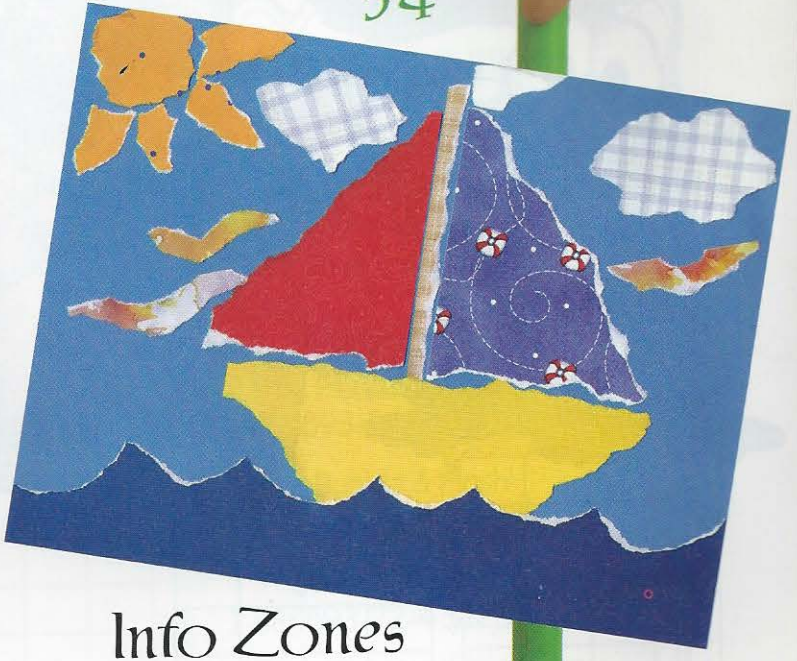

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Meet the Gang from

Houligan's Hollow

This crew of interesting characters join in on all the fun each issue! Follow their instructions to see what word their grid makes—it's something that you'll find out about in this issue.

Answers on pg 64-66

Hi! I'm Flitz. My grid is the yellow one between Mazey & Jack. Color the first three squares in the top row and the first three in the bottom row. Then, color the second column all the way down.

It's me...Dewey. Color all four squares across the top, bottom and third rows. Now, color the second square in the first column and the fourth and fifth square in the last column.

Burman here. Please color the first and third column all the way down. Color the second square in the top and bottom row, and the last square in the bottom row.

Hi Pals! Mazey here. Color the first and last column all the way down and color the bottom row all the way across.

Just Jack here! Color down the left side. Color the second and third box on the top and bottom rows. Color the second, third, fourth and fifth boxes in the last column.

Hi, Kids!

It's time to be thinking about school again. To get that brain revved up for classes, you better warm it up first so you don't get brain strain. You know when you have brain strain because you say, "Huh?" every time someone asks you something. For example, say "Architeuthis" and tell me what it is...

Before you say "huh?", turn to page 19. Get that brain warmed up reading through all the pages in this issue. You'll avoid brain strain and be ready for school.

Jack

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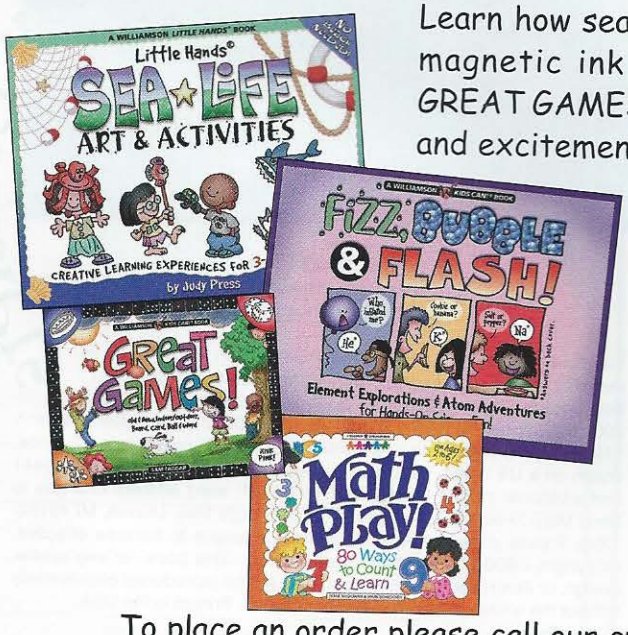

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Parents Teachers

Inside Kid Zone pages, you'll find lots of interesting projects and activities to entice young minds. Motivating, assisting, and watching children develop and learn is as rewarding for adults as it is for the kids. To make sure the fun stays fun, be attentive to their needs.

Some children are more talented in certain areas, while some are more advanced for their age. We look to you to determine whether a child needs adult assistance on a particular project. Please be aware that some projects may require a sharp pair of scissors and recipes may require cooking. Make sure children are supervised utilizing any product or tool that they may not be old enough or proficient enough to use.

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What's Different?

There are 10 differences in these two picture. Can you find them?

Answers on pg 64-66

1._____ 6._____

2._____ 7._____

3._____ 8._____

4._____ 9._____

5._____ 10._____

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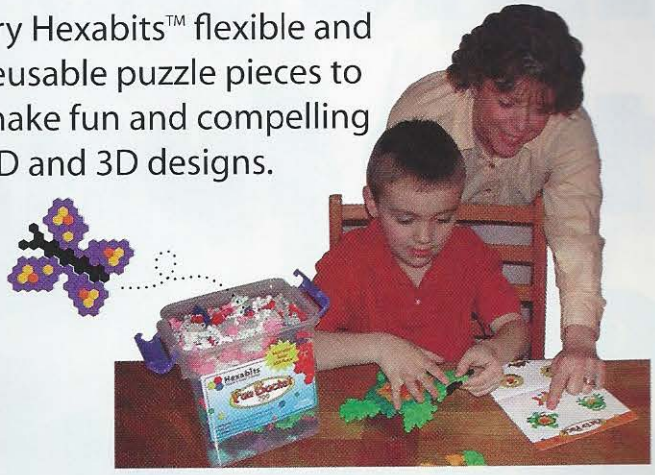

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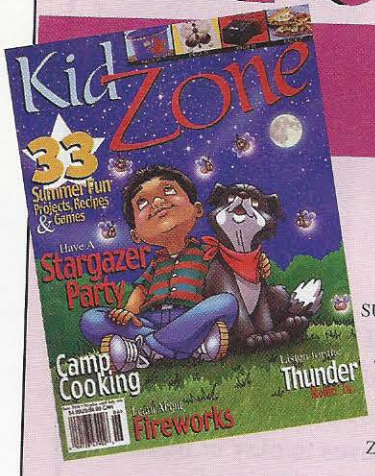

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Have you made a cool project with your classroom, scout troop, friends, or for someone special? If so, we want to see it!

If it's your own design and you can provide us with instructions, we'd love to feature it in an upcoming issue so all of our Kid Zone readers can try it for themselves. Send in a picture of your project and tell us about it. If we use it in an upcoming issue, we'll send you a free gift!

See Jack's letter on page 7 for the address.

Include your name, address, and telephone number.

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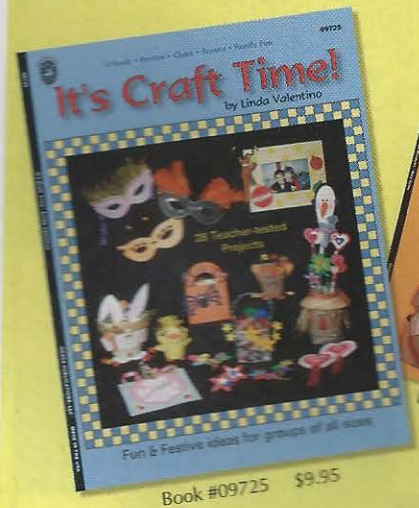

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Similes Quiz

Similes are phrases that describe something by making comparisons using the words *like* or *as*. For example *sharp as a tack* or *out like a light* are two similes or clichés. Familiar similes are call clichés. The words below are mixed up clichés that you've probably heard of before. Match the words on the left with the correct word on the right to complete a familiar cliché. All of these use the words *as a* to make the comparison. Then try to come up with some original similes. Answers on 64-66

1. Happy	as a	Picture
2. Sick	as a	Fiddle
3. Pretty	as a	Bug in a Rug
4. Snug	as a	Ghost
5. Smart	as a	Eel
6. Slippery	as an	Bat
7. Blind	as a	Dog
8. Fit	as a	Lark
9. Pale	as a	Whip

Now, try writing your own similes. Write an adjective (a descriptive word) in the first blank, and a noun (object, person, etc.) in the second blank. Show them to your mom or teacher to see how you did.

_____ like a _____.

_____ like a _____.

_____ like a _____.

_____ as a _____.

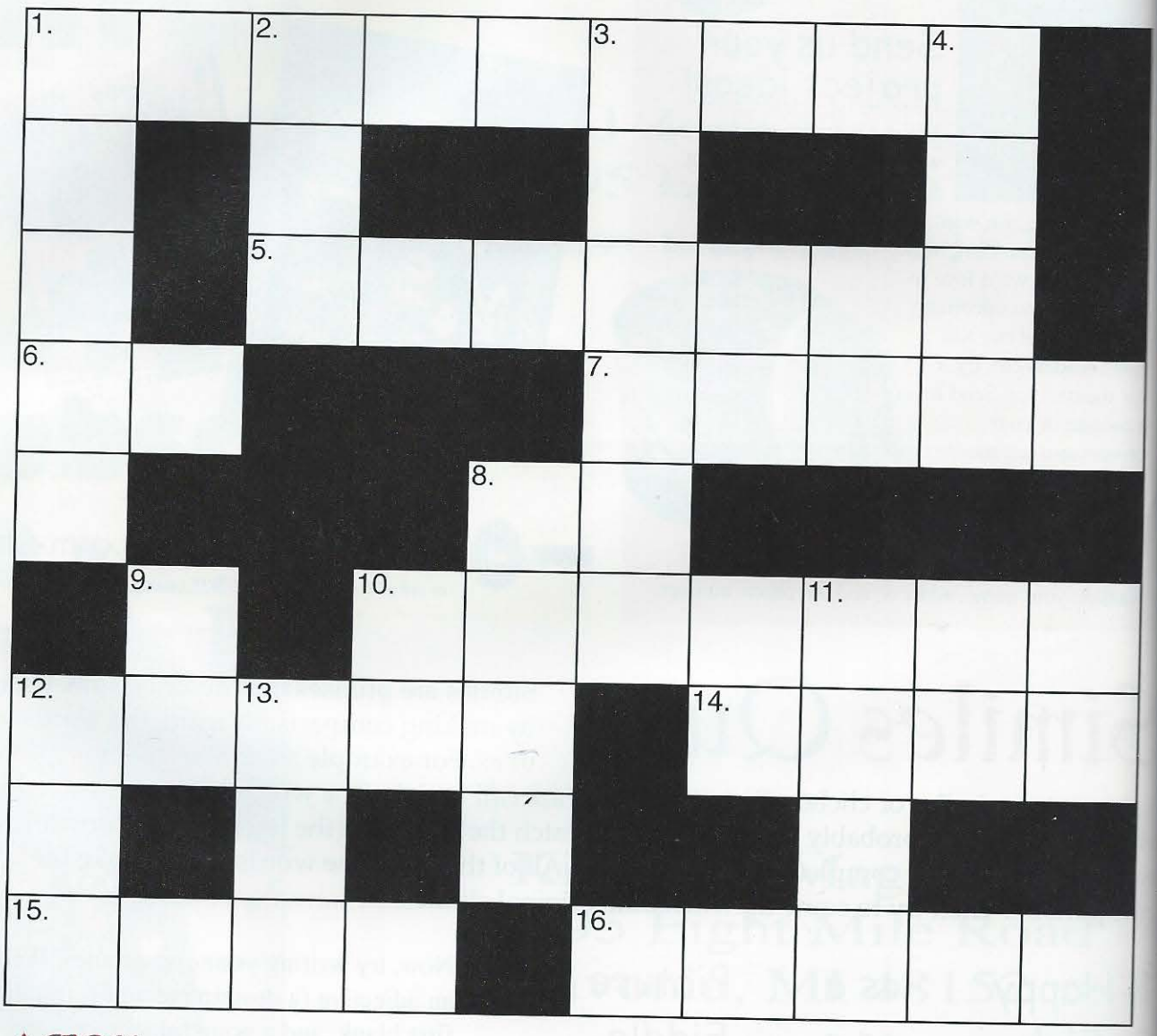
_____ as a _____.

_____ as a _____.

Kid Zone

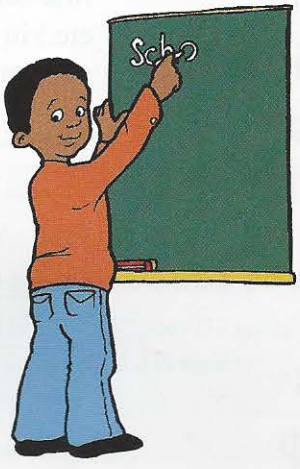
Crossword

Answers on pg 64-66



ACROSS

1. A room inside your school.
5. Someone who instructs the class.
6. Abbreviation for Louisiana.
7. To rub off pencil marks on paper.
8. Abbreviation for high school.
10. You might study about presidents in this class.
12. A harbor in Hawaii.
14. Another word for arithmetic.
15. A short, informal letter to a friend.
16. This is what's left after a fire.

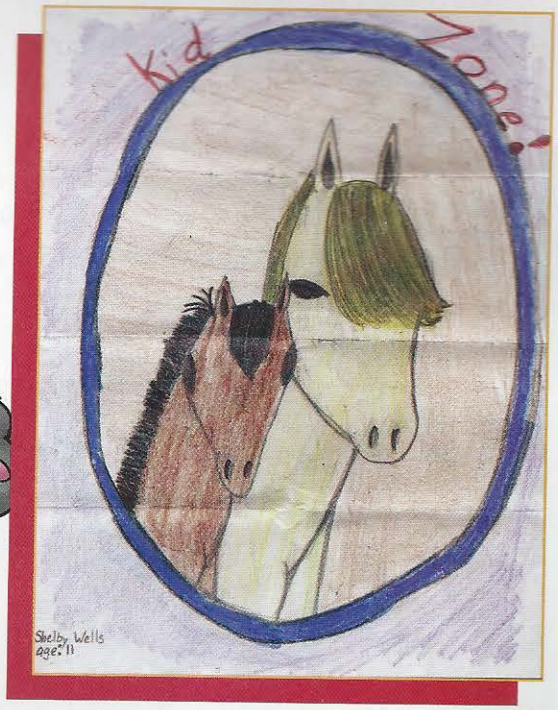


DOWN

1. You use this on the blackboard or sidewalk.
2. You might paint in this class.
3. This is the time at school you go outside to play.
4. The red planet.
8. Much smaller than a mountain.
9. Abbreviation for physical education.
11. Sworn statement.
12. Something you use to write on paper.
13. You would do this if you are in a school play.

Kid Zone Pages

Hello Everyone!
I know you are going to be real busy with school, but I just love getting pictures from all of you. Could you draw and color me some pictures of fall? How about me and a scarecrow, or me and a pumpkin? Oh! How about drawing me dressed up in a costume? I suppose you could draw the rest of the gang, too!



Shelby Wells
11 yrs. old
Winnemucca, NV

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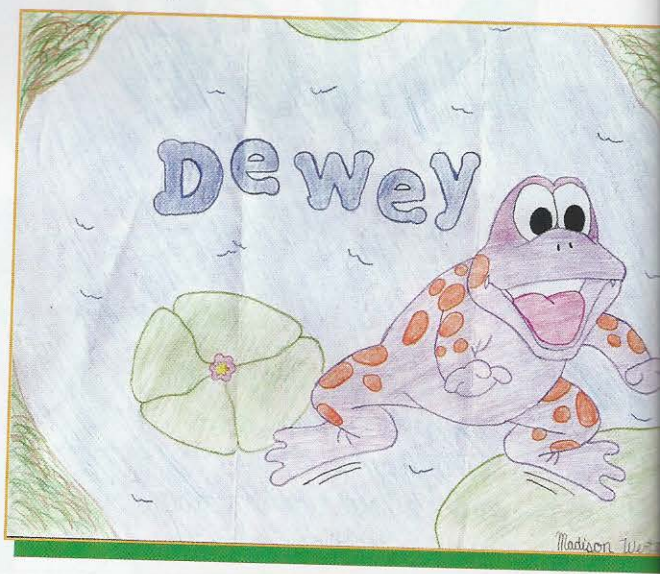
If your picture or letter shows up here, we'll send you a gift.

Roses are red Violets are blue.
I think you are sweet, pretty, and cute.
I don't now what made you so great.
Thank god for sending you to us this day.
You came to us, oh my sweet baby girl. Thank god for this wonderful,
WONDERFUL girl.

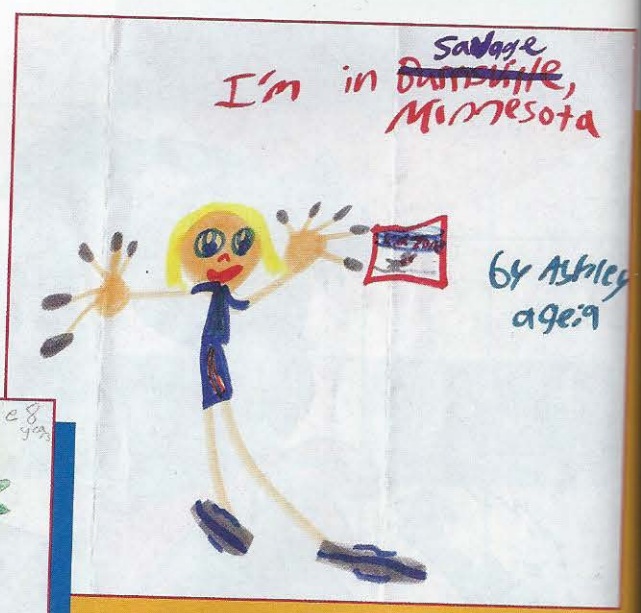
By Deanna Pinomaki
Age 9

Deanna Pinomaki
9 yrs. old
San Ramon, CA

Madison Wertz
10 yrs. old
Olathe, KS



Ashley
9 yrs. old
Savage, MN



Arie Koella
8 yrs. old
Claire, MI

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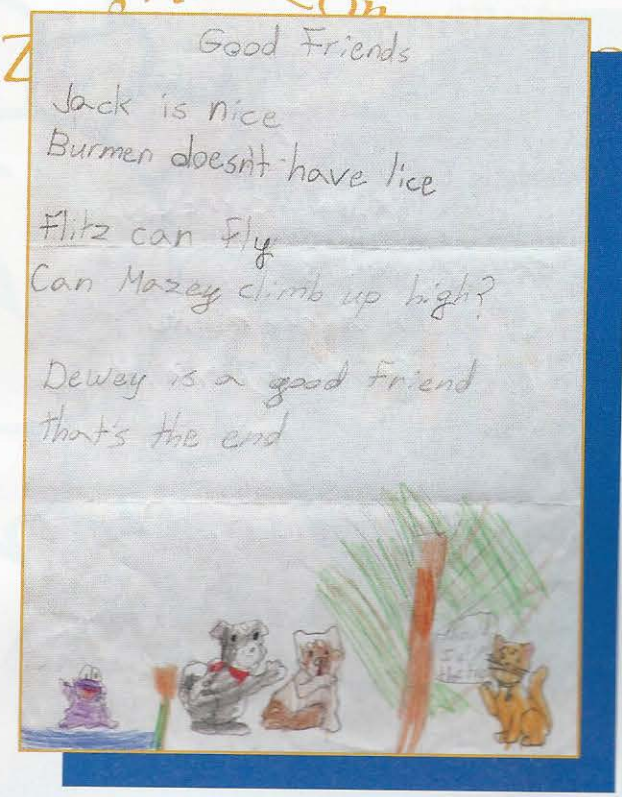

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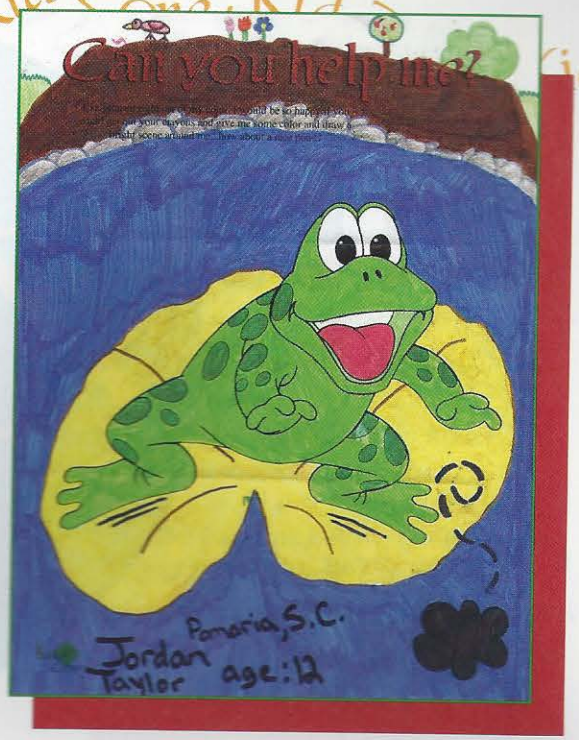
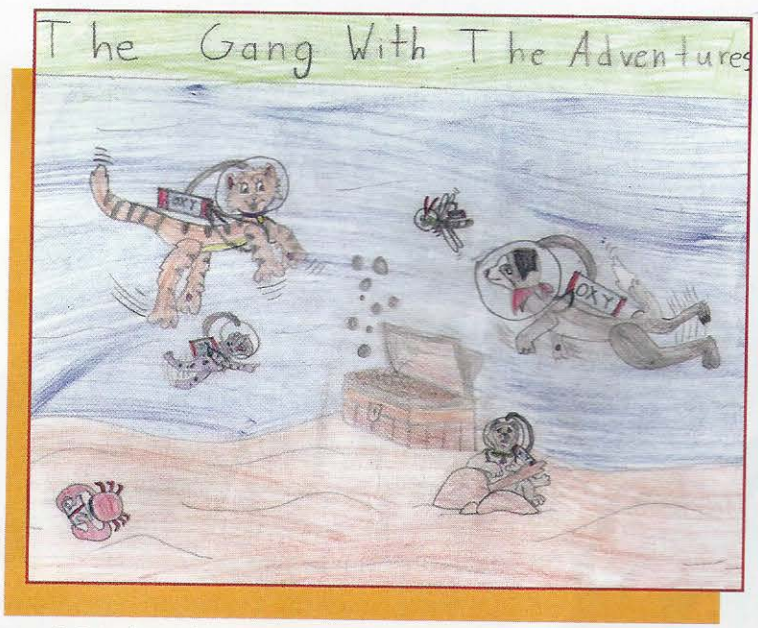
8 yrs. old
South Hampton, MA



Jordan Taylor
12 yrs. old
Pomaria, SC



Nik Sanders
10 yrs. old
Grand Haven, MI

Mikalah Guyton
8 yrs. old
McDonough, GA

InfoZone

Hot Stuff

We've tracked down the **facts** on everything you could possibly want to know about...

Hot Peppers...

The habanero pepper has been called the hottest pepper in the world. The habanero pepper comes from the Yucatan Peninsula in Mexico. However, many pepper lovers say the tepin pepper is much hotter than the habanero. These small peppers are only 1/4" across.

How Hot is the Sun?

Very, very hot! The middle of the sun is at least 10 million degrees. The surface of the sun is only about 5800 degrees.

Hot enough to fry an egg on the sidewalk?

People often say this when it's really hot outside. But *is it hot enough* to cook an egg on the sidewalk? According to the American Egg Board, eggs need to reach 144 to 158 degrees Fahrenheit before they'll turn from a liquid to a solid. A sidewalk would have to be awfully hot to fry an egg. Even if it worked, there would probably be dirt and gravel in it, anyhow. Yuck!

Lava Temperature?

Lava temperature depends on the location of the volcano. In Hawaii, lava temperatures run at over 2000°F!

Hot Springs?

If you take a dip at Miette Hot Springs in Jasper National Park, y won't be shocked by cold water. H the steaming hot springs—with the h water of all the Canadian Rockies springs—reaches a temperature of F. When you take a bath at home, water is probably less than 110°

Make this spicy magnet to display your Hot Stuff!

Hottest Temperature...

Libya, Algeria, Death Valley, and Iraq have some of the hottest temperatures on earth. The hottest temperature recorded in the U.S. happened on July 10, 1913 in Death Valley, California, when the temperature reached a searing 134 degrees. The highest temperature ever recorded in the world occurred in Libya in September 1922 when the temperature reached 136 degrees. In contrast to these hot countries, the highest temperature ever recorded at the south pole was on Dec. 27, 1978, when temps reached a sweltering 7½ degrees.

Hottest Selling Toy In History...

Barbie! More than 1 billion have been sold since 1959!

Hottest Pop Star...

Brittney Spears is the number 1 hottest star under the age of 25.

Hottest Game...

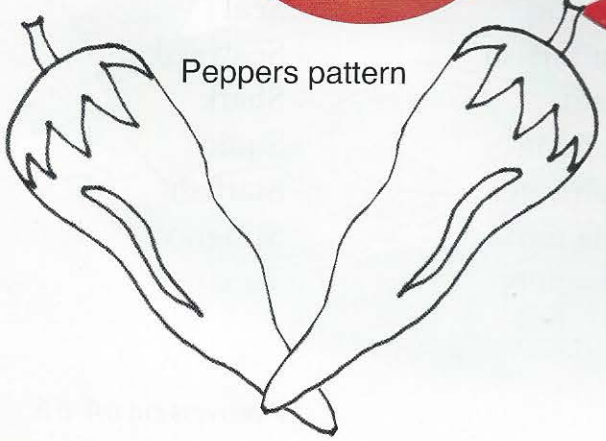
More than 25 million Game Boy Advance units are in homes around the world.

Materials Needed:

- Scrap of orange, red, green and white paper.
- Black, fine point permanent marker
- Glue stick
- Magnet

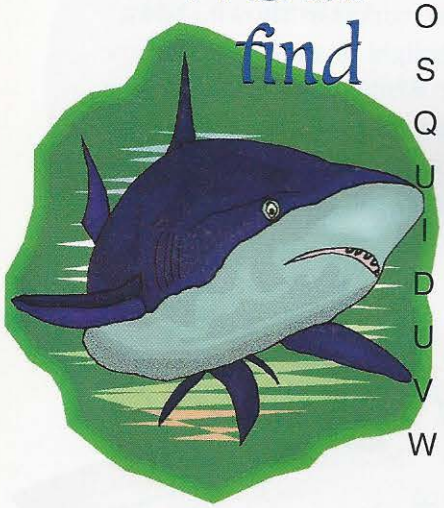
Make it:

1. Using the patterns below, cut the burst background from yellow. Cut a slightly larger burst from orange paper. Glue yellow burst onto orange burst. Outline inside the yellow burst with the black marker.
2. Cut chili peppers from red and the tops from green paper. Glue tops on peppers. Outline with the marker as shown. Add a white wavy highlight on each pepper as shown from the white paper. Glue peppers together and then to the center of the burst.
3. Write the words "Hot Stuff" on the burst. Glue the magnet to the back.



Peppers pattern

Ocean word find



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Halibut
Humpback whale
Jelly fish
Kelp
Lobster
Mackerel
Octopus
Orca
Pacific
Pufferfish
Reef
Salmon
Saltwater
Sea turtle
Seagulls
Seal
Seaweed
Shark
Squid
Starfish
Stingray
Tuna

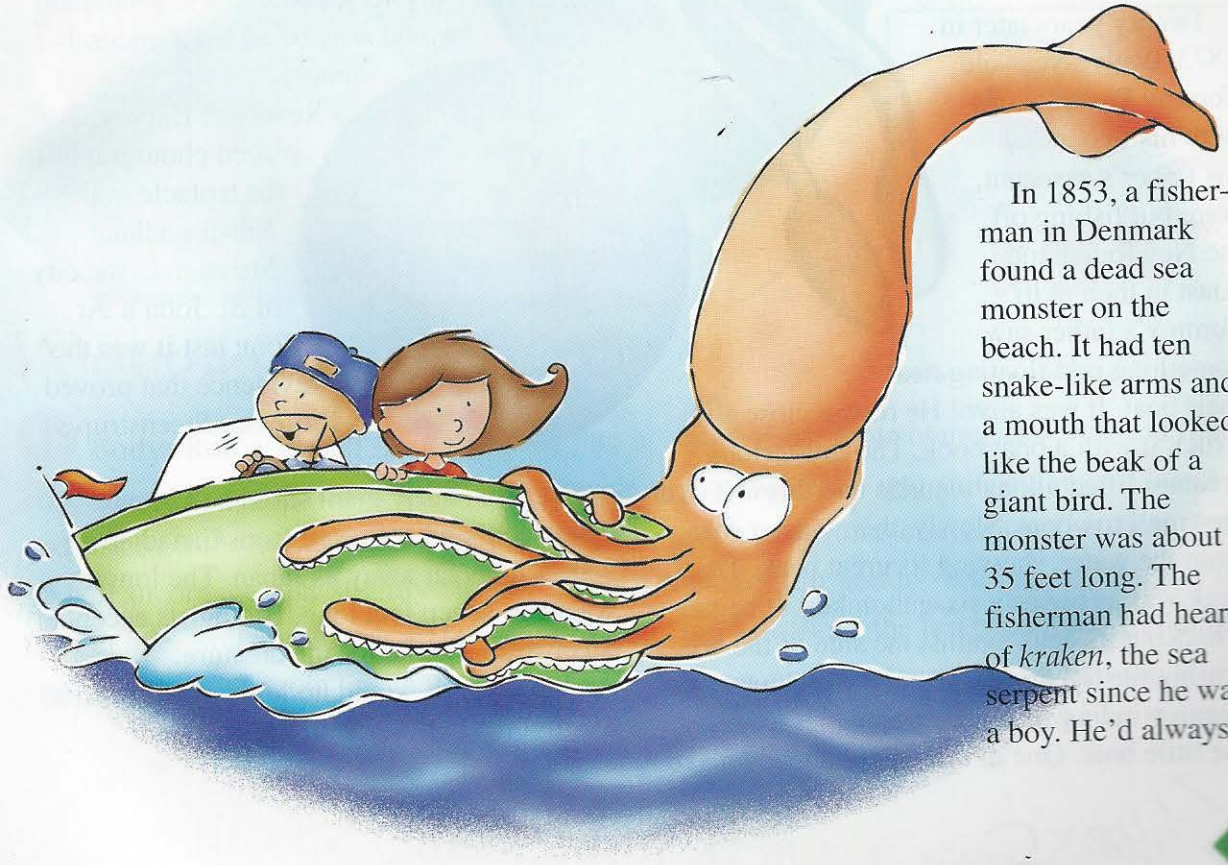
Answers on 64-65

Critter Zone

Animals, bugs, crawlers and flyers, swimmers and slitherers may be found in the Critter Zone!

Strange Ocean Creatures

by E.D. Mahr



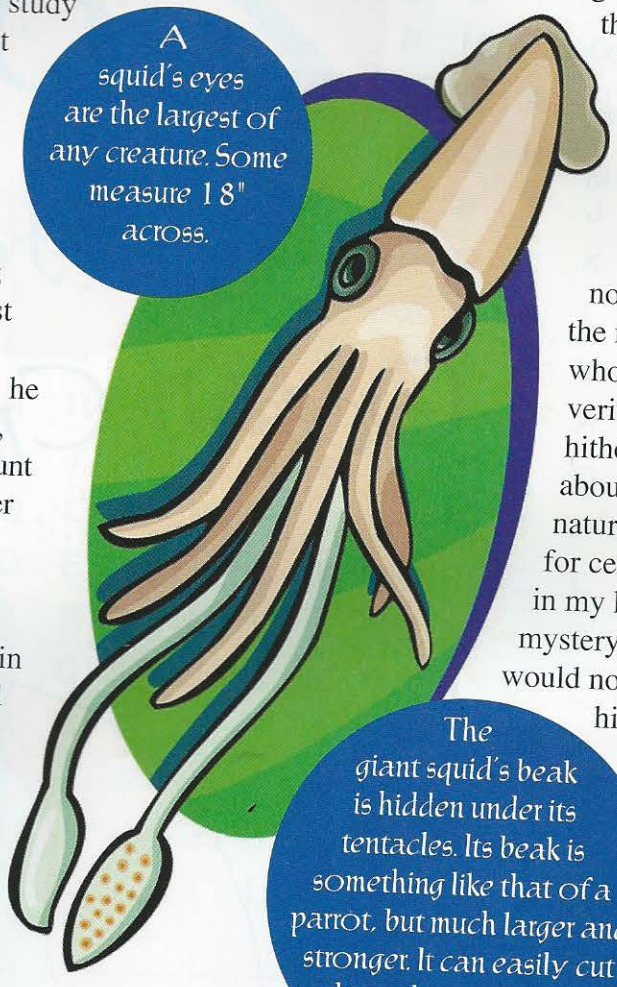
In 1853, a fisherman in Denmark found a dead sea monster on the beach. It had ten snake-like arms and a mouth that looked like the beak of a giant bird. The monster was about 35 feet long. The fisherman had heard of *kraken*, the sea serpent since he was a boy. He'd always

believed these were only legends.

The fisherman sent the horny beak to Professor Steenstrup, a biologist at the University of Copenhagen. Steenstrup examined the mouth and declared that it came from a squid. A squid has ten tentacles, but most squid grow to less than a foot long.

Wondering about these huge mouth parts, Steenstrup began to study ancient stories about sea monsters. He concluded krankens of folklore were the arms of giant squid waving about the surface of the ocean; however, the scientist could not prove this theory. Nevertheless, he named it Architeuthis, which means paramount (supreme) squid. Other scientists remained unconvinced. They wanted real proof.

A squid's eyes are the largest of any creature. Some measure 18" across.



Twenty years later in 1873, twelve-year-old Tommy Piccot, along with his father and his father's assistant, were out fishing off the Newfoundland coast in their skiff. Tommy's father saw something odd floating near their boat. It was alive! He rowed close and struck it with a boat hook. The mysterious creature lifted a long tentacle and threw it over the small rowboat. Slowly, the monster rose from the water, showing its great beak. The beak was as big as a six-gallon keg. It began whacking its beak against the side of the boat scaring the fishermen. Then, the creature began winding its ten long tentacles around the little boat. One of the men grabbed an axe and chopped off two of the creature's arms.

The wounded monster swam away, spewing inky fluid that darkened the water for nearly three hundred yards.

Returning to their town of Portugal Cove with the two tentacles, the fishermen began chopping one of the tentacles up to feed their dogs. Tommy Piccot suggested they show their remaining tentacle to the local minister, Moses Harvey. The minister and fishermen measured the tentacle. It was nineteen feet long.

Harvey wrote: "I was now in possession of one of the rarest curiosities in the whole animal kingdom—the veritable tentacle of the hitherto mythical devilfish, about whose existence naturalists had been debating for centuries. I knew that I held in my hand the key to a great mystery, and that a new chapter would now be added to natural history."

The giant squid's beak is hidden under its tentacles. Its beak is something like that of a parrot, but much larger and stronger. It can easily cut through a steel cable.

Reverend Harvey placed photographs of the tentacle in the Newfoundland Museum in the city of St. John's. At long last it was the evidence that proved Professor Steenstrup's theory real.

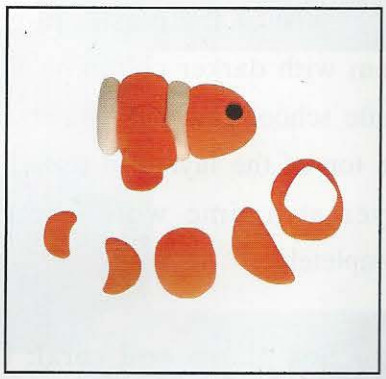
By 1897, thirty giant squid had been discovered and collected from Canadian waters to as far away as Japan. The longest was fifty-seven feet long. Biologists accepted Steenstrup's name for the creature: Architeuthis. It would no longer be known as the mythical sea serpent, the kraken.

Clown Fish Aquarium

Stuff you need

- Plastic to-go box
- Modeling clay
  orange, white, black
- Tissue paper
  2-3 blue and purple sheets
- Chenille stems
  3 each of 3 different colors
- Shells and stones
- Black permanent marker
- Misc.
  Clear fishing line, glue, paintbrush, fine wire

Designed by Nancy Overmyer



What to do

1 **Body:** Roll a 1" ball of orange clay into a cone shape. Roll and flatten a 1/2" ball of white and place on the broad side of the head. Roll a 1" ball of orange and slightly flatten. Place it next in line. Roll and flatten a 1/2" white ball of clay and place it next in line.

2 **Fins:** From orange clay, roll and flatten six pea-size balls into thin oblongs. Place two on each side and center on the fish. Put one underneath and toward the tail fin. Put one on top just above the last placed fin. Roll a little bit larger ball and flatten into a half circle. Put the broad end on the top and front of the fish. For

What to do

the tail fin, roll a 1/2" ball of orange into a cone. Place the broad end next to the last white piece of the body.

3 **Eyes:** Roll two 1/8" balls of orange and indent them with the end of a paintbrush handle. Roll two 1/8" balls of black and place in the indents. Place the eyes on either side of the head.

4 Let the fish dry for at least 24 hrs. Use a fine-tip black marker to outline each section of the fish and all the fins.

5 **Aquarium:** Cut or tear strips of tissue paper to fit the inside bottom (back of aquarium) of the plastic to-go box. Layer them with darker colors on bottom. Dilute white school glue with water and paint over the top of the layers of tissue. Painting one layer at a time works best. Let it dry completely.

6 **Sea plants and coral:** Using chenille stems, group three of them together, twist, and fold in half. Bend them for a zig-zag look, wrap them around a pencil for a spiral look, or leave them straight for a grass look. Position and glue to the bottom of the aquarium.

7 Glue shells and stones in the remaining areas.

Clay Starfish

Materials Needed:

- Neon Modeling Clay: red, pink
- Modeling clay: white

Make it:

1. The starfish can be any size. Roll five balls of red clay into long ovals. Roll or pinch each end of these arms into a point. Attach each arm at the points forming a star. Bend and shape the tips of each arm.
2. Decorate the starfish with many tiny white balls around the edges of each arm and in a circle around the center of the fish. Alternate white and pink balls down the center of each arm. Then pinch those balls to form a sharp ridge. It works best to roll each ball and place it on the fish one at a time so they don't have time to dry out.
3. Let the starfish dry for at least 24 hours and place in a display of sand or seashells.

Other Strange Ocean Creatures

Read the descriptions of these sea creatures, then try to match them to the correct picture on the right.

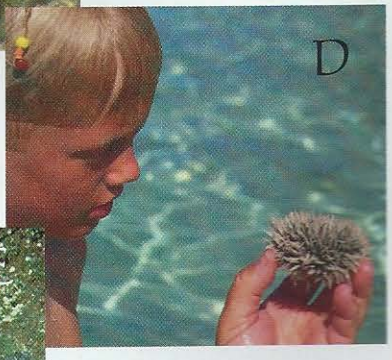
Anemone: Most of these flower-like creatures dwell in shallow water, but some live in deep ocean waters. Some types float, others swim, and yet others prefer to burrow in coral.

Starfish: Also known as sea stars, starfish can have five, or up to fifty thick arms. They have rows of tube feet that help them walk across the ocean floor where they live. There are 1,200 known species in many beautiful colors. One type, called "the crown of thorns," eats coral and is destroying the Great Barrier Reef of Australia.

Sea Urchin: This creature has a soft body enclosed in a round shell covered with long spines. It is found in all oceans. Its life span is from four to eight years. The spines are used for locomotion, protection, and for trapping drifting algae for food. The sand dollar is a variety of sea urchin.

Sea Cucumber: These sea animals have short frilly tentacles around their mouths with which they feed themselves. Their bodies are cylindrical, leathery, and slimy. They live together on the ocean floor in large colonies. They are slow, sluggish animals, but they have been seen to take bounding leaps if disturbed.

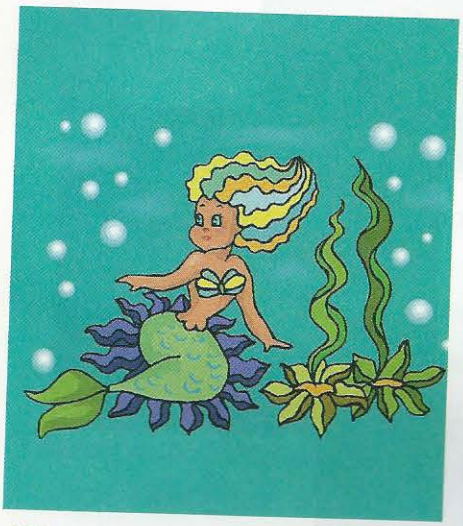
Manta Ray: Also known as the *devil ray*, the manta ray is related to the shark family. Some types of ray can grow up to 23 feet across. It has a flat body and breathes through holes which are between the eyes on the top of its body. The manta ray lives near the ocean's surface and sometimes leaps out of the water.



Mermaid Matchup

These seven pictures may look similar, but only two are exactly alike. Can you find them?

A



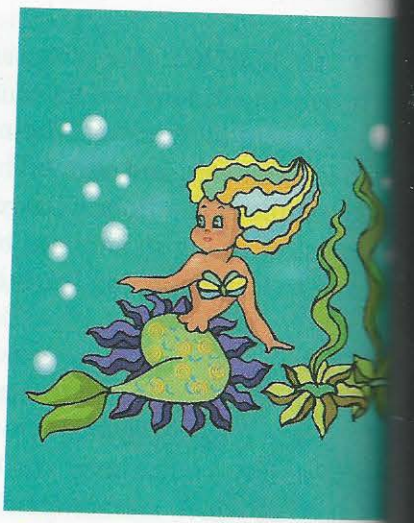
B

C

D

E

F



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Answers on pg 64-66

Chomp Zone

Chocolate

Find out about fabulous foods, then whip up some recipes for you and your friends to Chomp!

by Kerrily Sapet

You come inside on a snowy day and your mother hands you a cup of hot chocolate—mixed with spicy chili peppers! If you lived 800 years ago, this is how you would drink cacahuatl or hot chocolate.

Ancient cultures like the Aztecs drank hot chocolate. Their hot chocolate was a thick, peppery sludge. Fortunately, it's not much like ours today.

Chocolate comes from the beans of the cacao tree. The Aztecs used the cacao beans as money. One hundred beans could buy a turkey. Four beans could buy a type of salamander that was considered a delicious treat. One bean could buy a tomato.

Montezuma II, an Aztec emperor, is said to have loved hot chocolate so much he drank 50 cups a day! He sent servants to the mountains to bring back snow and ice that he mixed with cacao beans, powdered chili peppers, cornmeal, and spices to make a bitter, frothy drink. For nearly 2000 years, hot chocolate was only a drink for royalty and the very wealthy because it was so expensive.

Chocolate is much cheaper today and comes in all shapes and sizes—from hot chocolate mixes to bars and kisses. It's a good thing too, because the average American eats about 12 pounds of chocolate each year! You can indulge your love of chocolate by making these easy recipes.

Chocolate must include sugar, chocolate liquor, cocoa butter, and condensed milk, or it isn't chocolate.

Hershey™ Kisses® have been around since 1907. The Hershey factory can turnout 24 million Kisses® per day!

Chocolate Melts at 78° F. Chocolate should be kept at 65° F.

Yummy Cocoa

You will need:

2 cups of dry non-dairy creamer
2 cups of nonfat dry milk
2 cups of sugar
1 cup of cocoa powder

Directions

1. Mix the ingredients together.
2. Mix 1/3 cup in a mug of hot water. Store the rest in an airtight container.

Raspberry Cocoa

You will need:

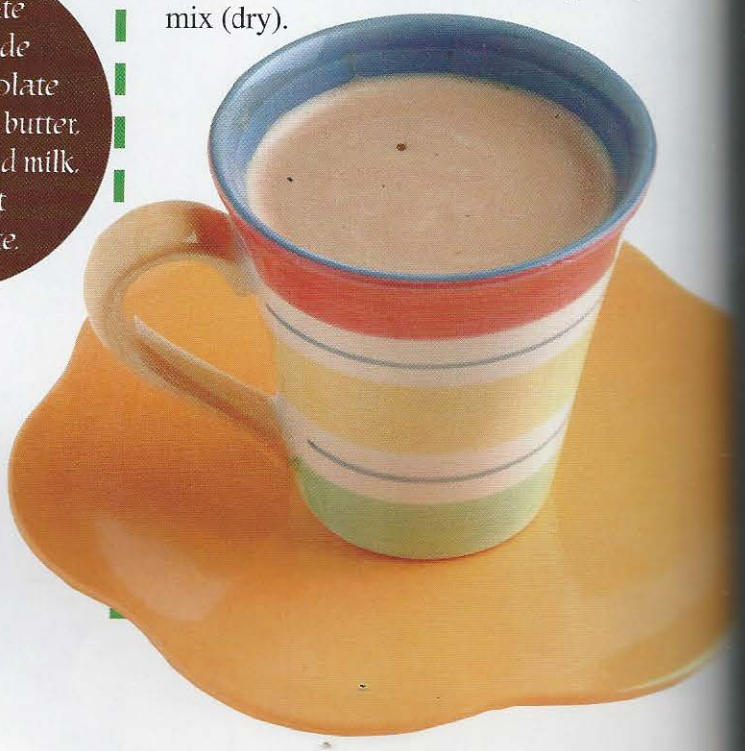
3 cups of Yummy Cocoa mix (above)
1 pkg. unsweetened raspberry powdered drink mix

Directions

1. Mix the ingredients together.
2. Mix 2 tablespoons in a cup of hot water.

Gift cocoa:

Decorate a glass or plastic container and fill with your Yummy Cocoa or Raspberry Cocoa mix (dry).



No-Bake Cookies

You will need:

2 cups sugar
1/2 cup milk
1/2 cup cocoa powder
1 stick of butter

1/2 cup peanut butter
1 teaspoon vanilla
4 cups oatmeal

Directions

1. Mix first four ingredients in a large pan and have an adult bring it to a boil, stirring frequently.
2. Remove from heat and add peanut butter and vanilla. Stir until peanut butter is melted.
3. Add oatmeal and stir until well coated.
4. Drop by spoonfuls onto a greased cookie sheet. Refrigerate until set.

Cocoa beans come from cocoa trees. The beans are actually the cocoa tree seeds that are found inside cocoa pods.

Cocoa trees only grow in very humid regions close to the equator. They require shade, over 80 inches of rain per year, and warm temperatures—above 65° F.

10 Amazing Chocolate Facts

1. Chocolate comes from cacao beans which are bitter, not sweet.

2. An Italian cookbook from the 18th century features chocolate lasagna, chocolate soup, and chocolate-dipped liver.

3. More than 30,000 kinds of chocolate bars and candy were invented in the early 1900s.

4. There are 49 million Tootsie Rolls® produced a day.

5. Candy bars were first sold in the United States in 1911.

6. Africa is the world's leading producer of cacao.

7. Milk from more than 50,000 cows is delivered to large chocolate-making plants each day.

8. The Swiss consume more chocolate per capita (at 22 pounds each) than any other nation.

9. The word "chocolate" comes from the Aztec word "xocolatl", which means "bitter water".

10. Most Americans prefer milk chocolate.

Crazy Cake

You will need:

1 1/2 cups flour
1/2 teaspoon salt
3 tablespoons cocoa
1 cup sugar
1 teaspoon baking soda
6 tablespoons vegetable oil
1 tablespoon vinegar
1 teaspoon vanilla
1 cup cold water

Directions

1. Put all ingredients into a bowl and mix well with a wire whisk. Pour into a greased 8" baking pan. Bake for 35 minutes at 350°. Or, make a dozen cupcakes and bake for 25 minutes.

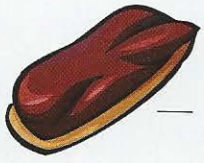
Chocolate Jumble

Unscramble the letters beside each pictu
spell out the name of the chocolate item
shown. Write the circled letters in the sp
at the bottom to find the hidden message

ekpucca

hccolotea phic koc

dfueg rba



ohccoltae rclaie

hccootela yspru

Hidden Message

Mazey's Mischief

Jokes, clowning, humor, tomfoolery, and other funny stuff!

What do you call two banana peels?
A pair of slippers!
Evan Pocha, 8 yrs.
Tofield, Alberta, Canada

What did the duck say to the cracker?
Hi, quacker.
Casandra Angulo, 10 yrs.
Guadalupe, CA

Stephanie: Why did the chicken cross the road?
Carrie: I don't know, why?
Stephanie: To get to the New York Times.
Do you get it?
Carrie: No.
Stephanie: Neither do I; I get the Wall Street Journal!
Rachel Kelley
York, ME

When is a farmer's cart like a dog's tail?
When it's a waggin!
Rachel Kelley

Why did the tomato blush?
The mayonnaise was dressing!
Alyssa White, 11 yrs.
Cullman, AL

What did the tie say to the hat?
You go on ahead, I'll just hang around!
Mackenzie Storm Brady, 9 yrs.
e-mail

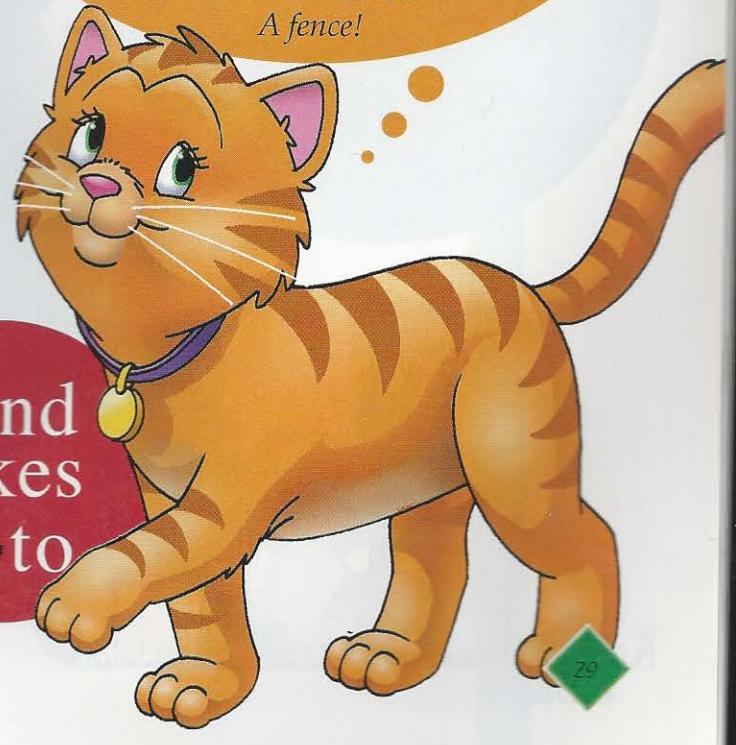
Knock! Knock!
Who's there?
Dwayne.
Dwayne who?
Dwayne the tub, I'm drowning!
Gregory Whelan, 7 yrs.
Melrose, MA

What is black and white and red all over?
A newspaper!
Hollie Pollak, 10 yrs.
New York, NY

Thanks for sending in these jokes! Keep sending them in, because I love to laugh! Hey, I have a few for you, too.

Who is the leader of everything in your desk?
The ruler!

What runs around a field but never moves?
A fence!



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Mazey's Mischief
450 Benson Building
Sioux City, IA 51101
or log on to our website:
www.kidzonemag.com to e-mail jokes.
Please include your name, age, and address!

Info Zone

Worms

by Cynthia Vonderahe

We've tracked down the **facts** on everything you could possibly want to know about...

Older than dirt?

Worms have been around for 120 million years.

Heartbeat...

A worm has five hearts!

Moving on..

Worms move by slithering across the soil.

Take a deep breath..

A worm gets oxygen through the pores in its s Its skin is very sensitive heat and vibrations. Th lets the worm know what's going on around it.

Home Sweet Home..

Worms live in burrows in decaying organic matter. They're usually found from a few inches to about four feet deep. The colder it is, the deeper they go. They like soil that is neither too wet nor too dry. The burrows help create air space that makes the organic material decompose quicker.

Big Family...

There are 4,400 species of worms. 2,700 kinds of earthworms.

Little Farmers...

In just one acre, there can be a million or mo worms turning the soil over like a plough.

Rainy Days..

Worms are primarily nocturnal (active at night), but they will crawl to the surface after a heavy rain, even in the daytime. In the winter, they will move deeper to escape heavy rains.

Make some friendly garden worms

Worm Spit..

While in their burrows during the day, worms eat the organic matter, which becomes decayed as it makes its way through the worms body among the digestive juices. The digestive juices are just like the saliva in your mouth.

Worm Friends..

Earthworms are friends to all people. They are one of the most important creatures on earth. They aerate, build, and fertilize the soil naturally.

Night crawlers...

These worms dig vertical tunnels that can go 6 feet into the ground. They can grow to about a foot long and live up to 10 years, unless of course, they are caught and used for bait!

Strange Relatives..

Leeches are related to worms. There are over 600 different kinds of leeches. Most are blood-sucking parasites, and we mean that in a nice way.

Materials Needed:

- Oven-bake polymer clay
- Pencil (optional)
- 2, 3/8" magnets (optional)
- Small black beads
- Misc: tin foil-covered pan, paper plate, wire

Make it:

1. Roll a piece of tan clay on clean paper plate to form 6" worm about 1/2" thick. Flatten small piece of clay and press to middle of worm. Press wire in middle section to form lines. Press two small black beads in face as eyes.

2. Pencil Worm: Press eraser end of pencil into head of worm. Wrap around pencil. Gently pull out pencil and lay worm on foil covered pan. Magnet Worm: Press two round magnets to back of worm. Place worm on foil covered pan in desired shape.

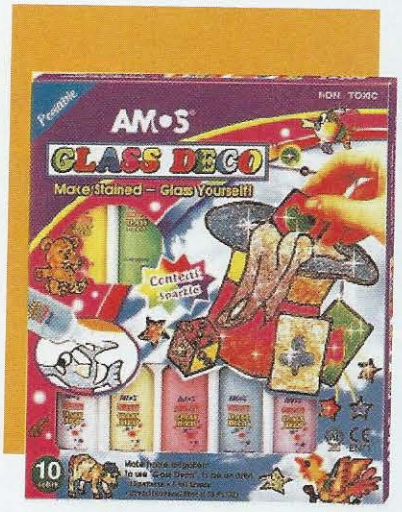
3. With an adult's help, bake at 275° for 15 minutes. Let cool before removing from pan. Put worm back on pencil.

Designed by Linda Valentino

Cool Products

Here are some new products you might want to try out. Available at most stores where cra

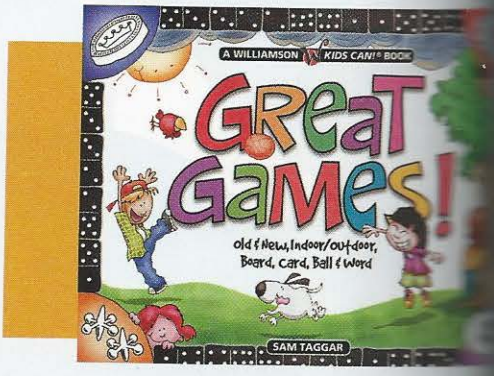
Kids love Glue Dots and they come in lots of different ways. Pop Up dots allow you to make pictures three-dimensional! From Glue Dots International. 262-814-8500.



Glass De... you make ... favorite ... a windo... sticker. A... three-ste... From Am... Marketing... Toll free – 866-266-...

It's Craft Time, from Grace Publications, is full of supercool projects for camps, clubs, classrooms or family fun! 423-434-2983

Great Games is a fun, hands-on activity book full of ... and excitement and lots of FUN! From ... Williamson. 800-586-2572.



Stitch X-Press comes in many designs ready for you to stitch up. Finished size is 7" x 7". Kit includes frame. From Dimensions®, 800-523-8452.

3-D Tic-Tac-Trivia is a 3-dimensional tic-tac toe game with trivia thrown in. Use your knowledge and strategy to win! From Modernized Toys. 877-237-4719.

Mega Zone

Moving Art

Here's a great way to celebrate! You can make a *Mega* bunch of decorations, *Mega* cheap!

by Kerrily Sapet

Alexander Calder was the American artist who first created mobiles. No one had ever created art that moved like this before. Calder was born in Philadelphia, Pennsylvania in 1898 and lived until 1976. He was not the only artist in his family. His grandfather and father were both sculptors and his mother was a painter. When Calder was a child, he used old dishes, pieces of wire,

scraps, and other thrown-away items to make different contraptions. In 1909, when he was 11 years old, he made his first sculptures: a duck and a dog. They were Christmas presents for his parents. The duck even rocked back and forth when it was touched.

As Calder grew up, he became most famous for his mobiles, or moving sculptures. Many of the mobiles used brightly colored blue, yellow, red, orange, black, and white shapes. Calder's colorful mobiles often were several feet long and hung from the ceiling. He carefully balanced metal plates, rods, and wire to make the mobile. The mobile moved if someone gently pushed it or if there was a soft breeze. It was a constantly moving and changing des He experimented using motors to move mobiles, but liked how moving air could m a mobile change in surprising directions.

Alex Calder's mobiles hang in many a museums today. His artwork ranged from jewelry-sized sculptures to large monume He even created designs using his bright co to decorate airplanes.

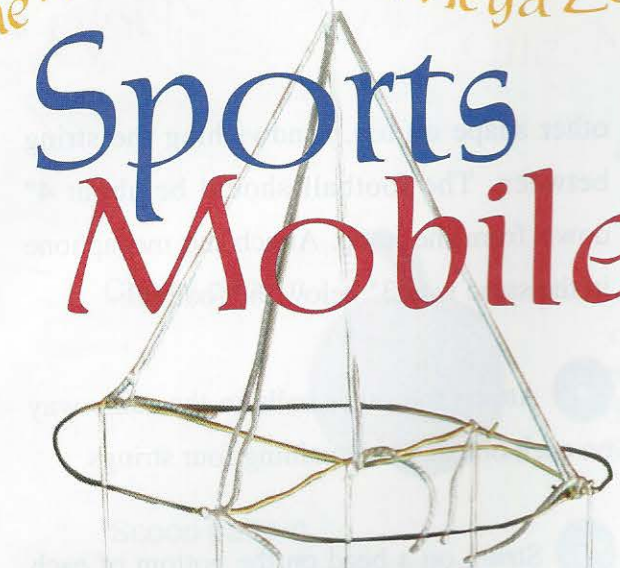
Mobiles can hang from the ceiling or st up by using wires. If they stand up from a b on the ground, they are called *stabiles* (like one shown here). Try making your own moving creation. Your project is only limite by your own imagination!

Make a stabile

Cover a piece of styrofoam (any shape) with some fun paper. Using wire, cut and bend several pieces into twists and curves. Cut shapes from paper, use stickers, feathers, or anything else you like, and attach to the ends of the wires. Poke wires into the covered styrofoam base.

Sports Mobile

Show your team spirit with a mobile featuring five popular ball-related activities.



Stuff you need

- **Wire**
  18" medium gauge (22) or heavier (or substitute a wood hoop)

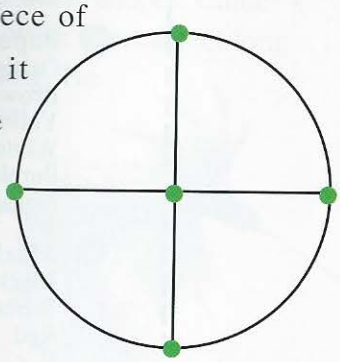
  2, 6" pieces fine wire (24 gauge).
- **String**
  3 yards
- **Paper**
  Orange
  Brown
  Yellow
  White
  Purple (or other color for megaphone)
- **Markers**
  Black
  White
  Red
- **Letter Stickers**
  (optional)
- **Beads**
  5-7 glass or plastic beads
- **Misc.**
  Scissors
  Glue
  Glue stick

Megaphone pattern

Zone · Mega Zone · Mega Zone · Mega Zone · Mega

What to do

1. Make a circle from the medium gauge wire, twisting the ends to secure. Using one piece of the fine wire, lay it across the center of the circle and twist the ends to each side. Take the second piece of wire and attach it across the top on the opposite sides of the circle (forming an X across the circle).



2. Using the patterns, cut two of each ball shape and two of the megaphone. Draw in detail lines on each one as shown.

3. Cut four 16" lengths of string and one 20" length. Tie the long piece to the center where the wires cross. Tie each of the other pieces around the hoop where the wires attach. (See diagram above. Tie strings where green dots indicate.)

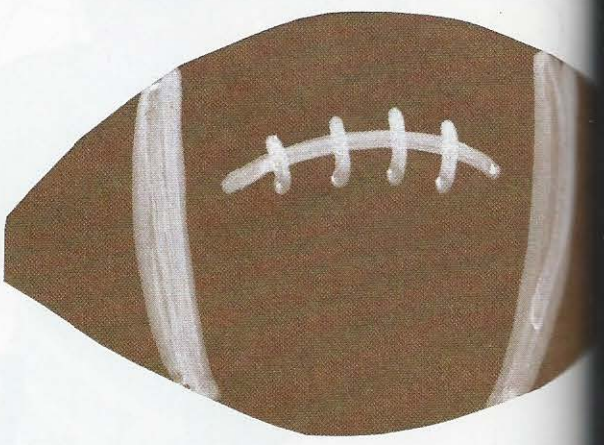
4. Using the glue stick, apply glue to backside of one of the football shapes. Then with regular glue, make a line down the center and lay the string on top. Press the other shape on top, sandwiching the stri between. The football should be about down from the hoop. Attach the megapho in the same way 3" below the football.

5. Attach the other balls in the same w on each one of the remaining four strings.

6. String on a bead on the bottom of ea string and knot about 1" from bottom. Y may want to add a few additional beads to t center string.

7. Use remaining string to tie a hanger the top for hanging.

Football pattern



Remaining ball patterns on page 63 &

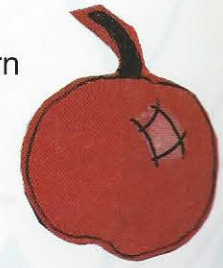
Mega Zone · Mega Zone · Mega Zone · Mega

·Mega Zone · Mega Zone · Mega Zone · Mega Zone · Mega

Make a simple, yummy mobile

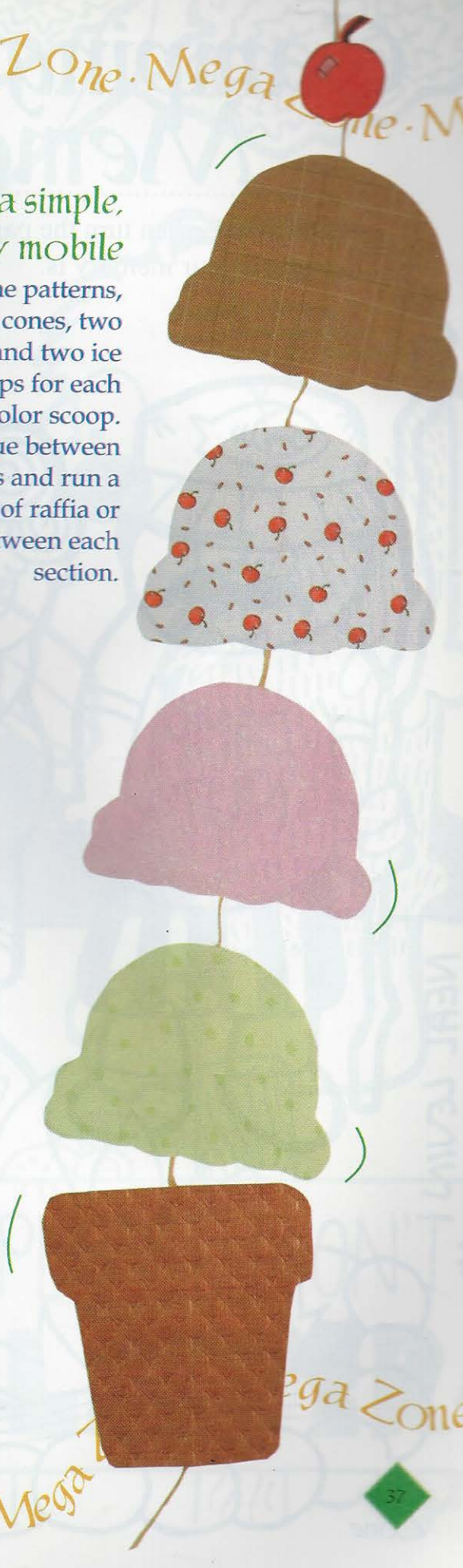
Using the patterns, cut two cones, two cherries, and two ice cream scoops for each different color scoop. Spread glue between sections and run a length of raffia or string in between each section.

Cherry pattern



Scoop pattern

Cone pattern



Zone · Mega Zone · Mega Zone · Mega Zone

Camping Memories

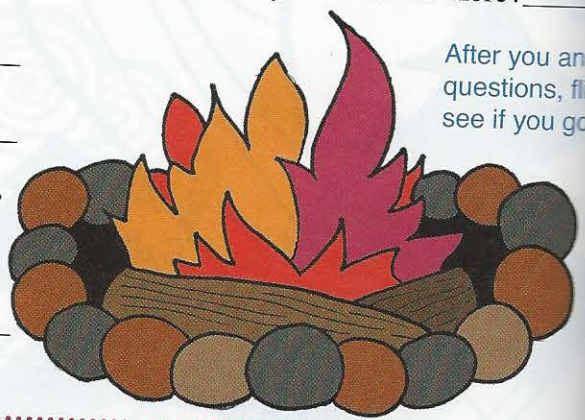
Color the picture, then turn the page to see how good your memory is.

PICKL
PLEASE DON'T
LITTER

Camping Memories

After you've studied the scene on pgs 38-39, see if you can answer these questions

1. What is going in to the tent?_____
2. How many birds are there? _____
3. What does the man's shirt say? _____
4. What is the boy giving to the bear? _____
5. What is on the boy's shirt? _____
6. What does the sign say? A. "Put Litter Here" B. "Please Don't Litter" or C. "Kitty Litter"
7. What food item is near the tent? _____
8. What is on the man's hat?_____
9. What does the man have in his hand? _
10. How many flowers are there?_____



After you answe questions, flip to see if you got th

Fill in the Answer

All of the answers begin with the lett
Read the clues, then fill in the ans

1. MA___
2. MA___ ___
3. MA___ ___ ___
4. MA___ ___ ___ ___
5. MA___ ___ ___ ___ ___
6. MA___ ___ ___ ___ ___ ___
7. MA___ ___ ___ ___ ___ ___ ___
8. MA___ ___ ___ ___ ___ ___ ___ ___

1. The fifth month of the year.
2. A boy or a man is a _____.
3. A type of a tree.
4. Relating to the ocean, or a branch of the military.
5. Hollow, gourd-filled instruments that are shaken.
6. A type of flower, usually bright yellow or orange.
7. A jelly usually made from the pulp and peel of citrus fruits.
8. A type of animal, like kangaroos and opossums, which have a pouch for their young (plural).

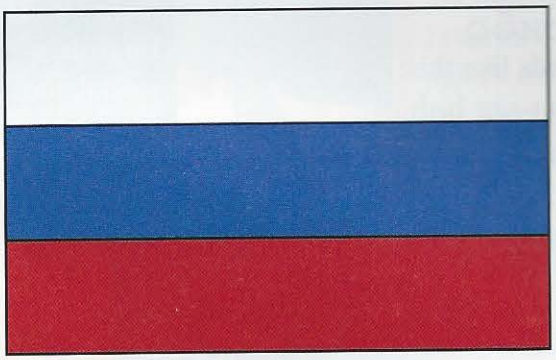
Answers on 64-66

Culture Zone

Russia

by Natasha Lyons

In the *Culture Zone*, you'll find out how people in other countries live and how parts of their culture enhance our culture.



Flag of Russia

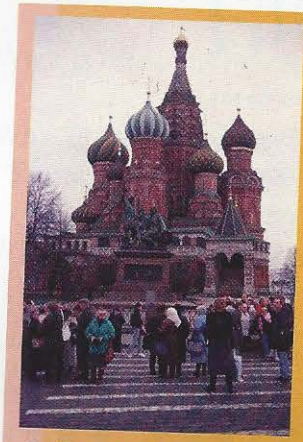
Peter the Great designed our flag.
White represents liberty.
Blue represents the Virgin Mary, the protectress of our country.
Red represents Russia.

Map of Russia

Russia is the largest country (1/8 of the world's total landmass). Traveling from east to west, you'll cross two continents and eleven time zones! Moscow is the capital. For the last 300 years, Russia has had two capitals: sometimes Moscow, sometimes St. Petersburg; Moscow grew century by century. St. Petersburg was built all at once, by Peter the Great (the Russian tsar).

"Privet" (pree-vet)! That's "hello" in Russian. My name is Sveta. My best friends are named Boris and Gleb. Our names are very Russian. I also have Russian friends named Alex and Maria, which are names you have in the U.S., too.

Russia lies on the huge north Eurasian plain. It stretches west from eastern Europe, across Siberia, to the Pacific Ocean. Siberia takes up more than half of the country. It is rich in oil, gas, coal, timber, gold, and diamonds. In the north, there is tundra and the icy Arctic Ocean. To the south, there are steppes (prairies), deserts, and mountains (Caucasus, Altai). The mighty Volga River—the longest in Europe—flows into the world's largest lake—the Caspian Sea. The Caspian is bigger than all five Great Lakes combined!



St. Basil's Cathedral in Moscow

Climate depends on where you live. It is mostly continental and temperate. Areas in the south are subtropical. There are active volcanoes and hot springs in Kamchatka (far east). Russian winters are snowy and cold. In Yakutia (Siberia), you would hear the frozen crystals of your breath tinkle down to the ground. Winter temperatures there drop to -70° F!

Walrus

Russian wildlife is abundant and varied. Reindeer, polar fox, and walrus are up north. Down south roam deer, brown bear, wolf, moose, and tiger. Different rodents (hamsters and chipmunks) inhabit the steppes and deserts. On Kamchatka peninsula, rivers are bursting with salmon. You can catch them with your hands!

Learn Russian

In Russian, *"Good afternoon"* looks like this:

Добрый день

and sounds like this:

Say: *"dob-ry den"*

In Russian, *"How are you?"* looks like this:

Как дела?

and sounds like this:

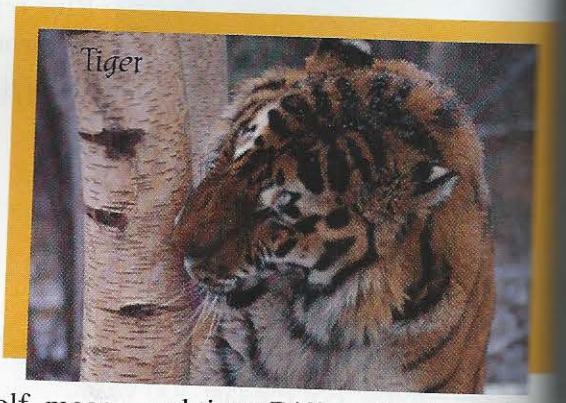
Say: *"Kahk de-la?"*

In Russian, *"Thank you"* looks like this:

Спасибо

and sounds like this:

Say: *"Spa-see-bah"*



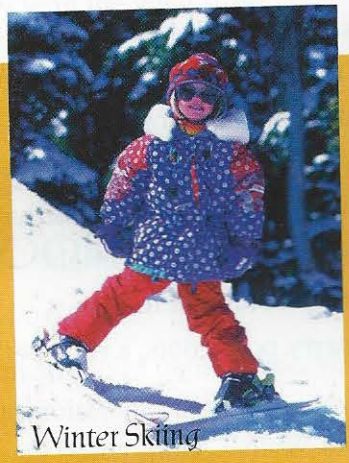
Tiger

Russian people are friendly and respectful of other nations. Families spend much time

together. During winter, hockey, skiing, and sled-riding are popular. Summer is soccer time. Everywhere there are stadiums or playing fields for kids to practice. Boris is a great goalie. Gleb and I play offense.

Weekends, families often go to dachas (dah-chah) which is their suburban cottage to enjoy local nature, fishing, and picking wild mushrooms and berries in the woods.

Kids go to school, just as they do in the U.S. We study similar subjects: history, geography, literature, math, biology, and art. Many schools have hobby clubs.


Winter Skiing

Russian holidays are different. My favorite is my saint's name day. It's like having a second birthday. On that day, all my namesakes can join the celebration and nobody is forgotten. Many gifts are exchanged.

Christmas is a big holiday. Because we love it so, we celebrate it twice. Once, with the rest of the world (like you do on December 25th), and the second time, the old Russian way on January 7th (which is Christmas by the Julian calendar).

Beware of water pranks during Ivan Kupalo (John the Baptist) festival of summer solstice. There are outdoor parties, games, dancing, and singing.

Summer Soccer

Candles and the sacred fires are lighted; flower wreaths are woven and floated on the water.

I love the International Women's Day celebrated in March. It is sort of like your Valentine's Day. Girls and women of all ages get lots of gifts, flowers, and candy.

Make Russian Food

Chilled Borsch

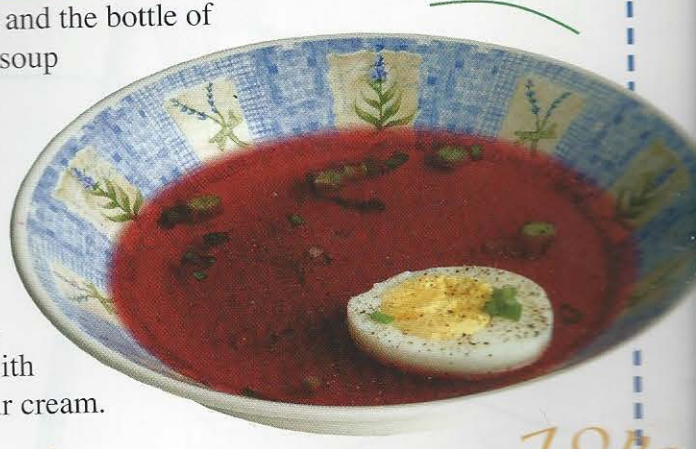
Russian borsch is an all-occasion favorite. This beet broth soup is served either hot or chilled. It could be made hearty with beef or chicken, if you like.

Ingredients

1 hard-boiled egg
1 bottle of ready-made beet broth (try international supermarkets)
1/2 cup chopped scallions
1/2 cup chopped dill
1/4 teaspoon pepper
sour cream

Directions

Chill the hard boiled egg and the bottle of beet broth. Take out two soup bowls for yourself and a friend. Slice the egg in half and place the halves in the bowls. Carefully pour chilled broth over the egg halves. Add pepper, dill, and scallions. Garnish with a generous dollop of sour cream. Enjoy!



Russian Petruschka Puppet

Petruschka (pet-roosh-ka) is an old Russian folk toy. The puppet is hu popular at carnival performances. Petruschka is a good-natured tricks and justice advocate. Traditionally, he h red hair, a big nose, blue eyes, and bright cheeks. He is wearing a Russian folk shirt (kosovorotka) in merry polka dots, a rope b and tall boots.

Materials:

Styrofoam tray or heavy paper, wood dowe straw, tape, scissors, markers

Make It:

Draw and cut out the Petruschka shape, usi the pattern on page 63. Color with the mark Tape dowel or straw to the back.

Make up a play for your Petruschka puppet perform. You can hide under a table and ha the puppet perform above the edge of the ta

In upcoming issues, we'll focus on different cultures and we'd like to know what culture you're from and what makes you special. Write to us and tell us what your favorite foods, games, and events are and how you celebrate your heritage.

Write us at: Kid Zone • Culture Zone Info • 450 Benson Bldg. • Sioux City, IA 51101.

Story Zone

Make a great bookmark for all your reading, then enjoy the story with the gang from Houligan's Hollow.

Fish Friends Bookmark

Supplies:

- Construction paper: pink, yellow, turquoise, and white
- Pony beads (pink, yellow, turquoise)
- Black cord
- Paper punches: triangle, heart, and tree
- Misc.— scissors, glue, wavy-edge scissors, circle punch, black marker

Make the Project:

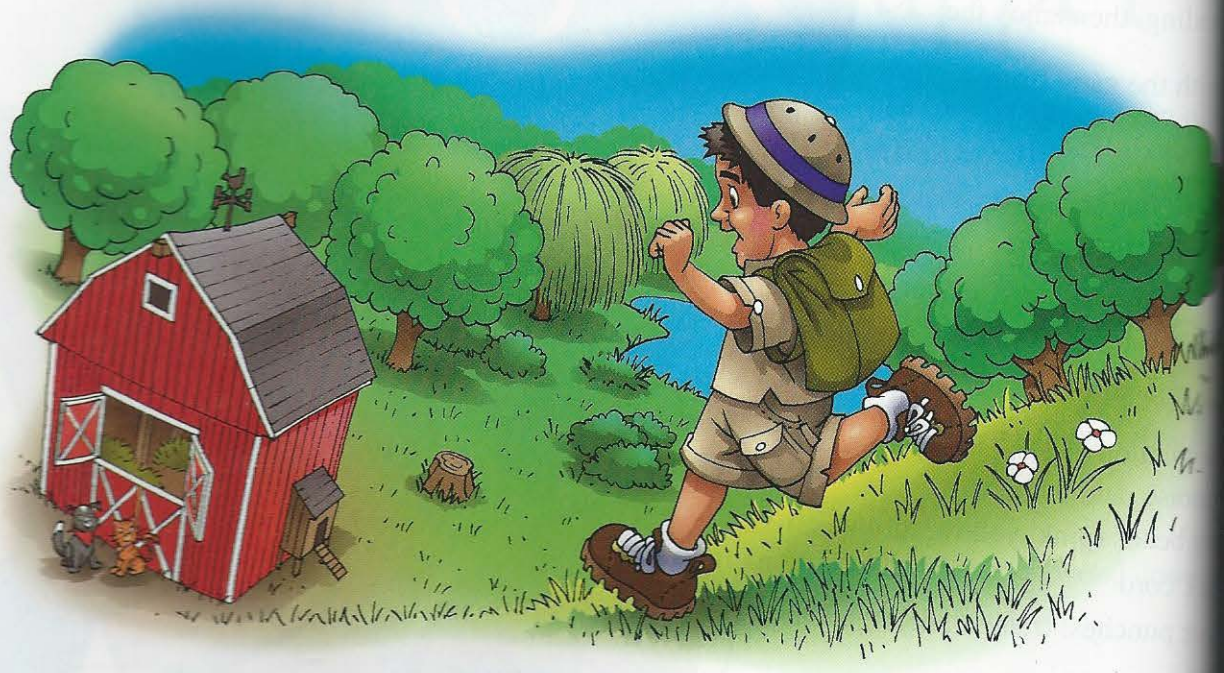
1. Cut fish from colored paper. Cut tail with wavy scissors.
2. Draw detail lines as shown.
3. Punch a white circle for the eye and draw details as shown. Punch shapes for your fish "scales" from another color. Glue eye and scales to fish.
4. Punch a hole in the tail and attach cord through the hole as shown. Knot about 1" up from bookmark. String on beads and knot again.

Designed by Mary Ayres

Fish Pattern

The Explorer

Written by Jennifer Winquist
Illustrated by Dan Sharp



Leo was whooping and hollering as he tore down the hill toward the barn.

Mazey and Jack looked at each other. Something must have happened. Just an hour ago, they had said their goodbyes. The summer was almost over and Leo was heading back to the city to start school soon.

"Guess what! Guess what!" Leo blurted out. Before they could answer he shouted, "I'm not leaving! I'm staying!" Then he rambled on loudly and quickly about his mom and dad having to go out of the country on business and that he would be staying with his aunt and uncle on the farm until they got back.

Everyone was equally pleased. They had all had a great summer together.

"I think we should go on an adventure together, down by the pond. I can't believe I haven't been there yet!" Leo pulled the backpack off his arm. "Look what my uncle gave me." He revealed a large magnifying glass. "We can go exploring."

Mazey and Jack thought this was an excellent idea.

Jack said, "We can go find Dewey and Flitz. They're a couple of interesting characters to explore."

The three of them packed up a few things and set out for the pond.

They didn't see Flitz or Dewey right off and they decided to split up around the pond to see what they could find. The grass had grown up quite tall over the summer and they could hardly see each other at times.

Jack was having fun bounding through the tall grass. He got going pretty fast and it was a little scary not being able to see what was beneath the grass. He slowed up quickly when he slipped on a big, wet rock, tripped over a large branch, and skidded into a big hole. He was glad that the tall grass prevented anyone from seeing him wipe out. He clawed his way out of the hole and went about exploring at a slower pace.

Leo came to a clearing at one end of the pond, and there sat a frog. A *purple* frog. Quietly he crept up behind it. He inched closer and closer until..."Gotcha!" He grabbed Dewey, who was instantly startled.

Leo grabbed a small plastic box out of his backpack and plopped Dewey into it. He held it up to examine his catch. "Leo the great explorer has captured a new amphibian strain. This unusual specimen will now and forever be known as the *Leo Frog*." Then he stuffed the frog-filled container back into his backpack.

Just then, he spotted a beautiful dragonfly buzzing about. She seemed panicked somehow. Leo reached into his sack again and pulled out a butterfly net—in this case, a dragonfly net. He swooped at the dragonfly once, twice..., "Gotcha!" He transported the helpless creature into a jar with air holes in the top. Again, he held up his treasure. "Leo the great explorer, master at uncovering never-before-seen creatures, announces the discovery of the *Leo Dragonfly*." He put the jar into his pack, along with the plastic container.

Dewey was so shocked, he hadn't moved, hadn't said anything. He had heard Mazey and Jack talk about a boy who was visiting for the summer and he figured this must be him. But they had said he was kind. *"Did nice boys put frogs in small boxes?"* Dewey wondered.

When he heard the bag open, he assumed he was being released. He quickly discovered he was instead getting a roommate. It was Flitz.

She was as stunned as Dewey. "Is that that Leo boy? Why is he putting us in here?"

Dewey had to strain to hear Flitz. Her voice was muffled behind the glass and plastic barriers that separated them. Dewey had no idea why they were in here, and he was getting a little worried. He'd been pushing on the lid of his chamber, but was having no luck. Flitz's jar looked even more hopeless to escape. All they could do was to wait and see what would happen.

As Leo continued his search, Mazey yelled for him to come and see what she had found.

Leo and Jack trudged from opposite ends of the pond to join Mazey near a big log. "Leo, I'd like you to meet Spinda. She lives in this log."

Leo looked but saw nothing.

"You might want to use your magnifying glass for this. She's right here." Jack pointed to the top of the log.

Leo adjusted his magnifying glass until a tiny black speck came into focus. spider. Man, she's *little*." When h this, her expression changed from a to a frown. Leo was puzzled.

Jack quickly whispered someth his ear.

"Uhhh...I mean, if I look at yo way, you look small, but if I turn around," he flipped the glass over, are a perfectly-sized spider...and pretty."

Mazey had forgotten that Spinda sensitive about being so small or would have warned Leo. But he saw just fine. Spinda was smiling again.

After viewing Spinda for a mom Leo remembered, "Hey, I did find s cool stuff." He began digging in backpack and pulled out the jar a plastic box.

Jack and Mazey jumped back as h had produced a grizzly bear from his b

Jack gasped, "What are you doing?"

Mazey looked at Leo, horrified. "Stu

"Geez, you guys. They're not *that* sc Granted, I've never seen a purple

before; maybe there's something really wrong with him, but you guys don't have to be afraid. They're locked up."

"That's what's scaring us! These are our friends, Flitz and Dewey!" Jack blurted out.

Leo looked a little confused. "I'm not hurting them. I'm going to keep them in my room. They'll love it there."

Mazey scolded, "I thought we were exploring...not kidnapping! They love it *here*. This is their *home*. Would you like to be kept in a box...even if the box was in a fabulous location?"

"Yeah, but they're not like *me*." Leo protested.

"Just because your friends are different than you doesn't mean you treat them any different." Mazey was really getting annoyed.

Leo looked at Dewey and Flitz. They didn't look happy.

Jack added, "Just because you like living a certain way doesn't mean that's the way everyone should live. It doesn't work for everyone."

Leo thought about all the times he had been sent to his room when he'd been naughty. He didn't like being kept confined. Not having any freedom wasn't fun at all. He unscrewed the lid of the jar and opened the door of the plastic box and set them both on the ground.

Dewey hopped out quickly and Flitz buzzed into the open air. They both looked upset, but before they could scatter, Leo said, "I'm sorry. I wasn't thinking about what was best for you. I was thinking about what I wanted. I really didn't mean any harm.

"I guess if everyone took things home to enjoy, what would there be to come and see here?"

Dewey and Flitz weren't the type to hold a grudge and were quickly smiling.

"It's okay. We'd be happy to come and visit you sometimes, but we like it best here at the pond." Flitz landed on Leo's hand.

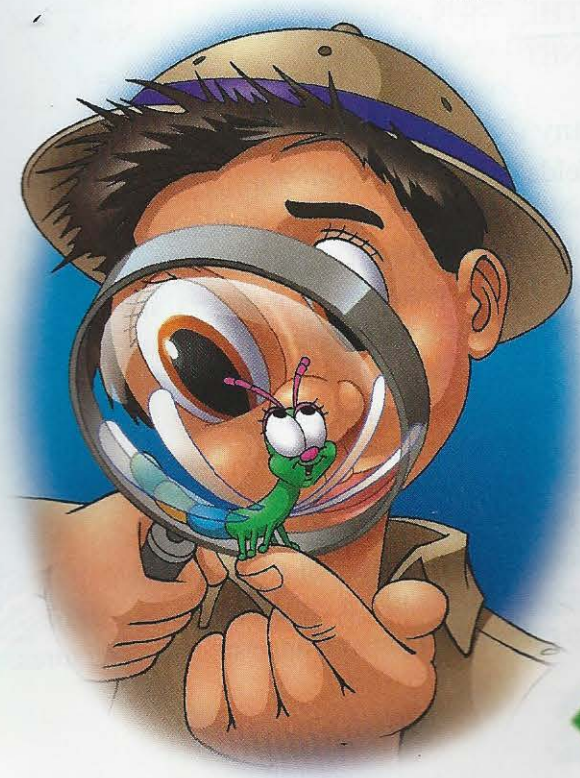
"Yeah," Dewey piped up, finally able to speak, "We'd like a new friend."

"You guys are awesome. And you," Leo pointed to Dewey, "you are the coolest frog I've ever seen!"

Dewey smiled. He was used to others thinking he was strange, not cool.

Leo got out his magnifying glass again and closely examined Dewey and Flitz, appreciating them in their own surroundings. He realized he didn't need to take them home to enjoy them. He could truly enjoy them in this place.

The End



Burman's Brain Benders

Burman is a regular know-it-all and has some brain-draining riddles for you to figure out. See if your brain is as big as Burman's.

Answers on p

Crack the Code

Jacob spent his summer fishing. While he waited in his boat for the fish to bite, he created codes to stump his friends. He used the words AND, THE, and NET to make addition problems, each letter equalling a different number 1 through 9. From the addition problems given and the clues, can you help Jacob's friends crack the codes?

Problem:

```
  NET
+ AND
-----
  THE
```

Clues:

A = 6
D = 3
E = ____
H = ____
N = ____
T = 8

Problem:

```
  THE
+ NET
-----
  AND
```

Clues:

A = 8
D = 1
E = ____
H = ____
N = ____
T = 4

Problem:

```
  AND
+ THE
-----
  NET
```

Clues:

A = 1
D = ____
E = ____
H = ____
N = 5
T = 4

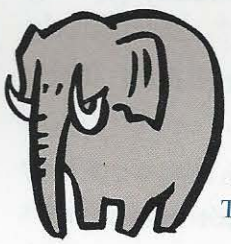
Zany Zoo

Zelda, the trainer at the Zenfield Zoo, was excited about the new animals that arrived from Zooland today: a bear, an elephant, a lion, and a zebra. As she reviewed their papers, she found that someone had mixed them up. Trying to sort out who was who, she read through and found each of the animals' names: Benzy, Gertha, Liper and Rogert. She also found their ages: one, two, three, and four years old. Then she found that each animal has an unusual talent: one clucks like a chicken, one tap dances, one giggles like a person, and one paints pictures.

From the clues given, can you help Zelda find out how old each animal is, as well as what one's name is and what their unusual talent

Clues:

1. The animal that is three years old is not the animal that tap dances.
2. The zebra is the animal that giggles.
3. The one-year-old is not the tap dancer.
4. The bear's name is Liper.
5. The four-year-old doesn't paint pictures.
6. The lion is one year old.
7. Liper is not three years old.
8. Gertha is the animal that tap dances.
9. Liper doesn't cluck like a chicken.



Name _____
Age _____
Talent _____

Name _____
Age _____
Talent _____

Name _____
Age _____
Talent _____

Name _____
Age _____
Talent _____

It's back to school time. Turn that brain back on and see if you can handle some tricky problems.

Fun Zone

Paper Crafts

Sometimes you just want to have a little fun. In this Zone you will find cool stuff to try...just for fun!

Making crafts from paper has been around for a long time. You've probably made paper airplanes, paper boats, and hats from old newspapers. You've probably made lots of pictures by drawing on paper. Have you ever made paper "art" by using paper on paper? There are so many ways to use paper creatively. The best things about making paper art are they are pretty easy, they're fun, and everybody has paper. For these

projects, you can even recycle paper from around the house. Use old magazines, newspapers, junk mail, even wrappers from food packages. Use your imagination.

Art always looks better if it's framed. If you don't have a store-bought one, you can find old frames at flea markets and rummage sales. Otherwise...use paper. Just cut strips and make a paper frame. You can lay the frame under your page, or on top at the edge.

You're sure to get rave reviews when your paper art goes up on the wall.

Positive-Negative Paper Pictures (right)

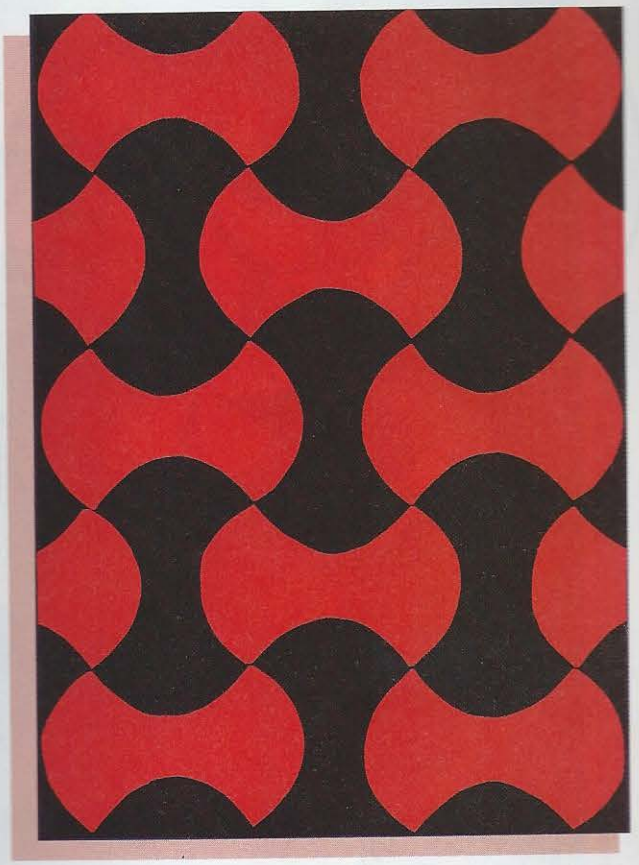
These pictures are created by laying the same shape in a special pattern on top of solid sheet. After all the shapes are positioned, the empty space showing through (the bottom paper) takes on the same design. Use the patterns on page 55

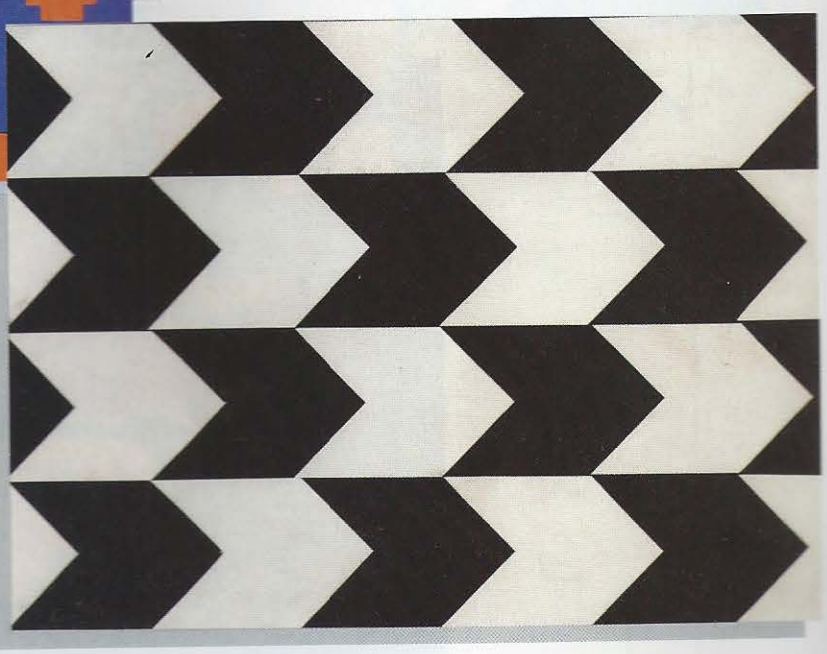
Collage of Me

Show your personality with these paper pictures. Cut out pictures of everything you like from magazines and photos (ask your mom which magazines and pictures you can use for your project before you start cutting and gluing). Tell the story of you. *Do you like horses, puppies, swimming, playing soccer?* Maybe a picture of grandma's house, a special trip or your family. How about food? *Do you like spaghetti,* pickles, broccoli, or macaroni? Put it on your collage. What do you want to be when you grow up? Maybe a police officer, a doctor, a teacher, or a veterinarian. Who are your friends? What's your favorite book? *What's your favorite song?* Try to think of everything that makes you the person you are.

Materials Needed:

- Card stock or construction paper (2 different colors for each picture)
- Glue stick
- Misc: ruler, scissors, tape, scrap paper, pencil



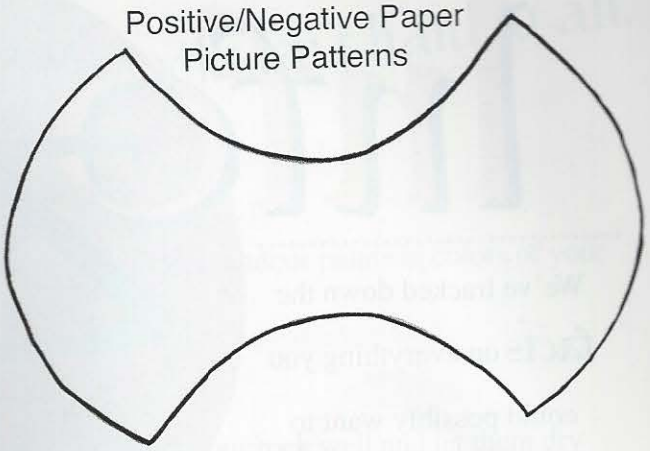


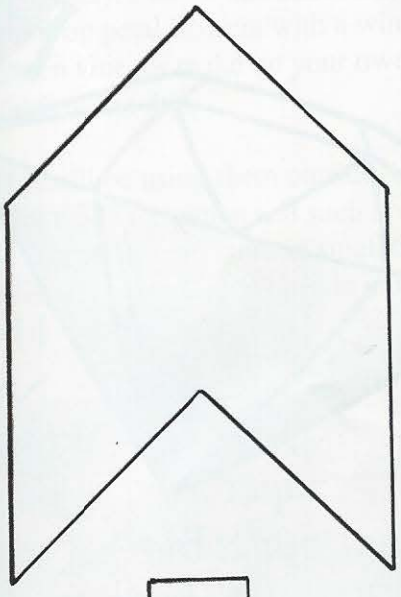
Make It (pictures shown):
Cut the number of shapes indicated, then glue to bottom sheet in a checkerboard pattern. Blue/Orange—cut 12 shapes from blue paper. Glue to orange paper. Red/Black—Cut 10 shapes from red paper and glue to black paper. Black/White—Cut 12 shapes from white paper. Glue to black paper.

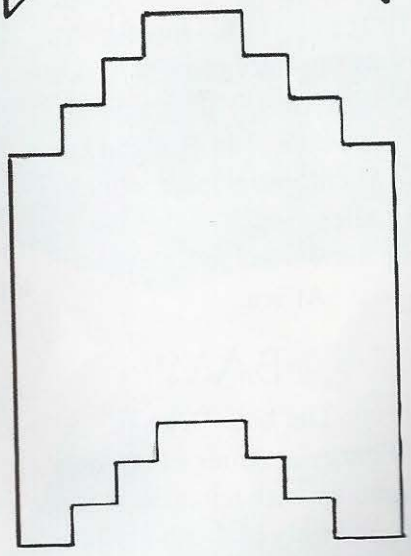
Torn Paper Pictures

These are fun and easy to m
You can re-create any pictur
scene you want in this style.
created a vase of flowers an
sailboat on the ocean. Start w
background paper, then just r
the shapes for each element:
teardrop flower petals, leave
sun rays, triangle sails, and c
centers for flowers and sun. S
shapes are a little more creati
like the waves of the ocean, p
clouds, sea birds, and the vas
but easy. If you mess it up, jus
again. It's just paper. After yo
have your pieces torn, lay them
out on your background before
gluing it all down. This is a gr
idea for gifts or for making a
special card.

Positive/Negative Paper Picture Patterns







Layered Torn Paper Art

Choose a piece of scrapbook paper for your background, 8½" x 11". Pick some scraps of paper that look good with your bottom sheet. Tear strips and squares and lay out in a design you like. Try folding some of the pieces in an accordion style or twist a strip around a pencil to make it curl. Make a kite (or other element you like) to lay on top. Drape string around your arrangement to fill in. Once you like your layout, glue everything in place. For this picture, we used some foam squares behind some of the pieces to make it more 3-dimensional. Add pebble letters, trinkets, pictures, stickers, and anything else you want.

Info Zone

Hard Things

We've tracked down the *facts* on everything you could possibly want to know about...

Hardest Natural Substance...

The diamond.

Super Hard, Super Big...

In 1905 the world's largest diamond was found in South Africa by Frederick Well. This diamond weighed 3,106 carats! In Holland the diamond was cut into 9 large stones and 96 smaller ones. The largest became known as the Star of Africa.

BAM!

The U.S. Dept. of Energy at Ames Laboratory came up with a hard discovery. Second only to the diamond, it's an ultra-hard compound made by adding silicon to an alloy of boron, aluminum, and magnesium...called BAM.

The Jawbreaker...

It takes 14 to 19 days to mak
Jawbuster, the original jawbr
A single grain of sugar is the be
of a jawbreaker candy. The suga
whirled with melted sugar un
snowballs to the right size.
jawbreaker can be larger than
ball or as small as a candy
sprinkle.

Hardest Paying Job...

He is Commander in Chief of the armed forces, the country's top legislator. His decisions can trigger war, inspire peace, and change the fate of every nation on earth and we call him Mr. President.

The Hardest Job...

President Bush has said
one of the hardest jobs i
world is to be a parent.
burdens on mothers, esp
single working mother
particularly great. So, m
sure you give your
parents a hug!

Making these decorative rocks isn't hard at all.

Tough as a tooth...

Your teeth are the hardest part of your body.

Tooth Cleaners...

The first toothbrushes were tough, too. Twigs were used.

Hard Test...

Mensa International is an organization whose members are all geniuses. To become a member you must take an approved test. Of those who test, only those who finish in the top 2% will be asked to join. In other words, they are smarter than 98% of the other people who test.

That's just nuts!

The babassu nut of Brazil is the hardest nut in the world.

Hardest Athletic Maneuver...

According to a 2003 review by USA Today's sport staffers, hitting a baseball heading for your chin at over 90 mph is the toughest thing to do.

Rocks...

are classified in three types based on how they are formed:Igneous, Sedimentary and Metamorphic. Most rocks that you see on the ground are sedimentary. They can take millions of years to form.

Materials Needed:

- Smooth rocks
- Acrylic paints or outdoor paints in colors of your choice
- Paintbrush

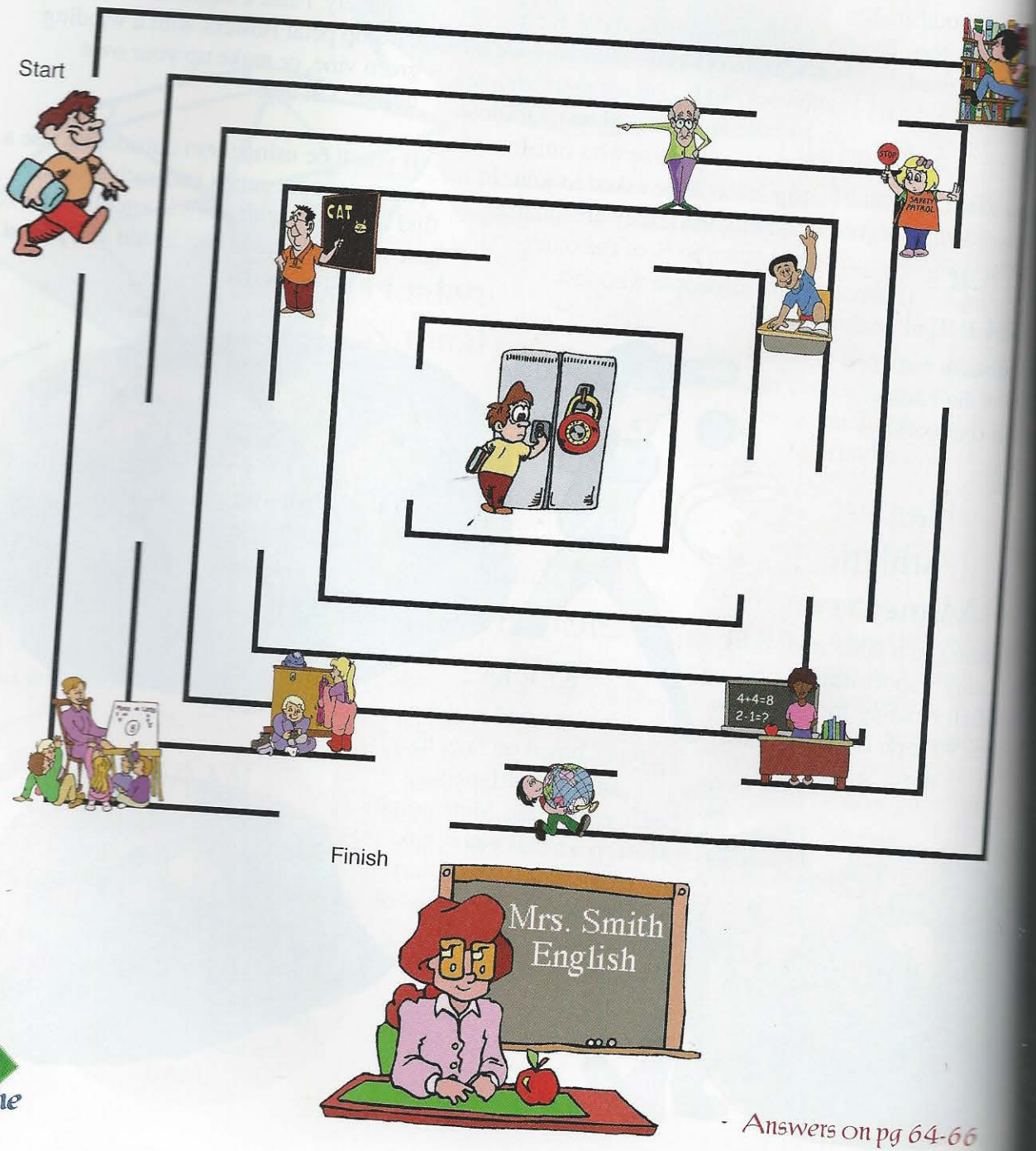
Make it:

1. Wash your rock well and let them dry completely. Paint a sun as shown, a teardrop petal flowers with a winding green vine, or make up your own design. Let dry.

If you'll be using them outside, choose a paint made for patios and such (you can find this at the craft store in small bottles). These make nice additions inside in a potted plant or as a paper weight.

School Maze

Today is Tommy's first day of school and he needs your help to get to his locker and then find his way to Mrs. Smith's classroom.



Answers on pg 64-66

Discovery Zone

Discovering and understanding our planet and everything on it.

A Naturalist's Notebook

by Loretta Acosta Russell

Want to go on your own expedition and explore the wild outdoors? Well then, grab your backpack, put on your walking shoes, and let the naturalist in you hit the trail.

Whether you scout the city or the country, your block or your own backyard, you'll discover that secrets lurk everywhere.

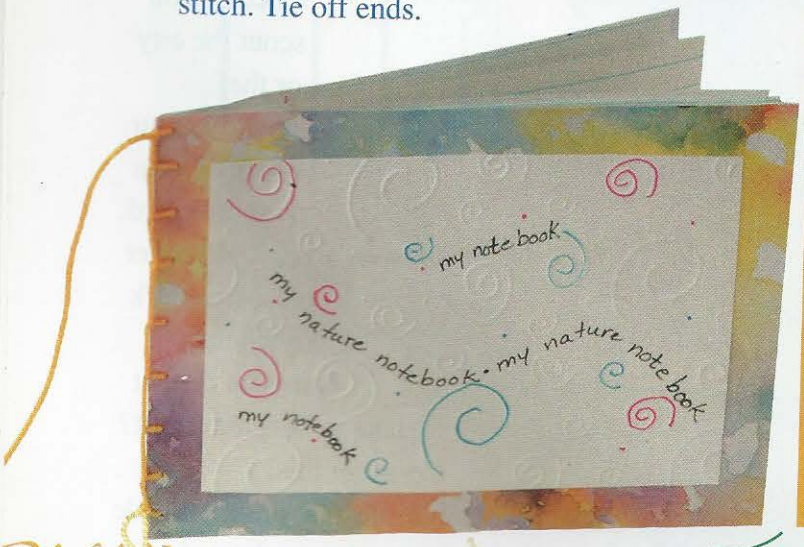
But what does it take to be a naturalist? Consider this: it's springtime and you're outside when you spot the scarlet-red plumage of a northern cardinal. Now, if

you have a camera, you can capture its image, and if you have a tape recorder, you can capture the trilling of its call. But what would you use to capture your thoughts, impressions, and observations of the bird? For that, you need a field journal.

Throughout history, journals have been used to collect, record, and evaluate observations. Whether documenting baboon behavior in Tanzania or detailing the rain forest fauna in Madagascar, a naturalist's notebook is an essential tool. Scientists document their observations in various ways. Some fill their journals with pencil sketches and short notes —some with watercolor painting, charts and lists. Still other journals contain more

Stitched Notebook

Fold a colorful piece of scrapbook paper in half and cut in half to 4¼" h x 5½" w. Cut a decorative piece of paper ½" smaller than the cover, add wording and designs, and glue to the front. Cut several pieces of notebook paper 4¼" h x 5½" w and stack in between front and back cover. Using a heavy needle and embroidery thread, stitch through all layers using a blanket stitch. Tie off ends.



Getting Started

Follow these steps to make and keep a journal or naturalist's notebook.

1. Make Your Journal.

You can use any purchased notebook or make a more personal one by following the instructions for the examples shown, or to inspire your own design.

2. Go Exploring.

Now that you've created your journal, let's learn how to use it. You will develop your powers of observation, while uncovering the hidden joys of nature. What creeping creatures hide under the stones? What wild flowers and weeds thrive around you? Bugs, birds, bats, or butterflies, there is no end to the critters you may encounter. Go outside, take a look, and then start writing. It's as simple as that. Choose a topic that interests you, then use the guidelines below to begin journaling.

3. Start Journaling.

What basic information should I include?

Start with the date and time (a.m. or p.m.), then record the basic weather, including information about temperature, wind, and clouds. You can include information about the location and the habitat such as type of soil, trees, and other vegetation. Make sure to write down if there is another person with you.

What personal observations should I include?

Write down what you see and hear. Write down anything you think is odd or surprising. If you like, you can include sketches and/or samples (twigs, leaves, etc.). Scientists record details of what they actually see and hear, but you may want to include space for creative writing and artistic expression as well. In other words, you may want to describe the scene or write a poem including some similes or metaphors (see the game on page 11 to learn more). Maybe you just want to describe your feelings. It's all up to you.

What special tools might I need?

Binoculars and a magnifying lens can make it easier for you to see. Field guides or illustrated books allow you to identify any unknown plants and animals you encounter. In addition to these things, a backpack is excellent for carrying whatever items you decide to bring along.

What do I need to remember?

Make sure an adult knows where you'll be. Never approach strange animals and do not eat or touch unusual plants. If you notice holes in the ground or in rocky areas, do not stick your hands in them. This may be an animal's home. Do not go into a watery area—it may be deeper than you think. Be aware of your environment and take care of it. Finally, don't forget to have fun experiencing and learning. As you revisit the area at different times, you can refer back to your old notes to see what's different and you may discover something very interesting from your research!

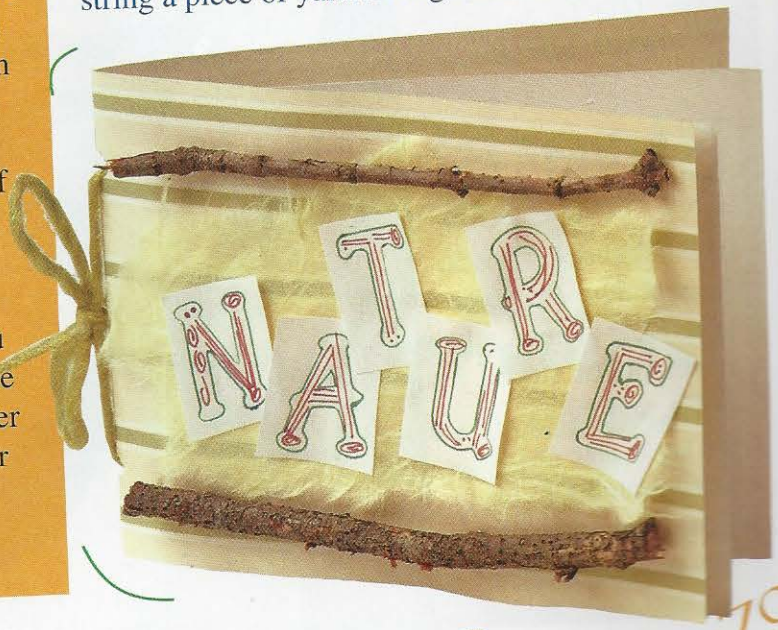
elaborate descriptions combined with an ethogram, or coded system that allows them to record common behaviors quickly.

A field journal forever records all the detail from your explorations. A good scientist knows he can't remember everything he sees and hears. Writing in a journal enables him to go back and reexamine the information year after year. Conducting this type of ongoing observation allows him to document any significant changes. These journals are then kept in libraries for other scientists to study.

Your journal can be accurate and detailed like a scientist's, or perhaps you want to be creative as well. Follow the steps on the left to get started keeping a naturalist's notebook.

Nature Notebook

Make this journal the same way as the stitched notebook, except instead of stitching the layers together, punch two holes through all layers and string a piece of yarn through and tie to secure.



Beach Notebook

Make this journal the same way as the nature notebook, except don't cut the paper in half. This notebook is 8½"h x 5½" w. Personalize the front with strips of paper with stamped images and words that make it yours. Glue on sand, rocks, and shells from your observation area.

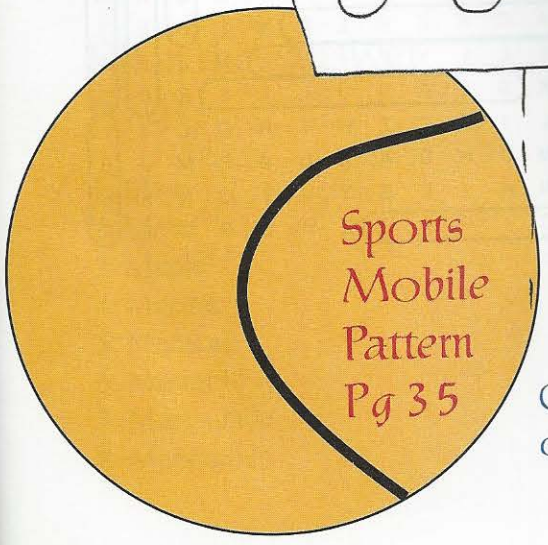
Use these notebook ideas to inspire your own Naturalist's Notebook. Enjoy decorating your journal, but don't forget the most important part is filling the inside.

Natural Notebook

This notebook is made from handmade paper (available at any craft or scrapbook store), raffia, and twigs. It's the same size as the beach notebook, just turned the opposite way.

Patterns

Petruschka Puppet Pattern Pg 44



Sports Mobile Pattern Pg 35

Other ball patterns on pg 66

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More Answers

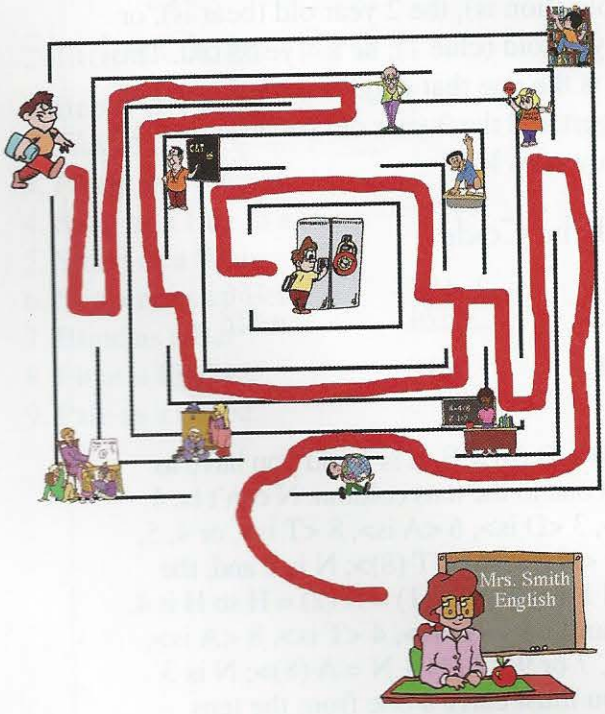
Burman's Brain Benders · Pg 50

Crack the Code continued—

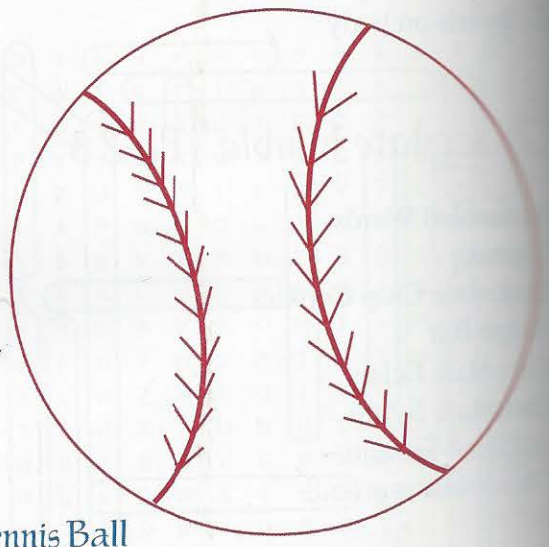
column so that T (4) + N (3) = A (8). E can't be 1 <D is>, 3 <N is>, 4 <T is>, 8 <A is>, 2, 5, 6 or 9 <E + T (4) = D (1)>; E is 7 and you must carry a one from the ones column to the tens, so the carried one + H + E (7) = N (3) so H is 5.

3. E isn't 1 <A is>, 4 <T is>, 5 <N is>, 2 <D would also be two, but can't>, 3 <D would be 1 but A is>, 6 <H would be 1 but A is>, 7 <D would be 7 also, but can't>, or 9 <D would be 5 but N is>; E is 8. D + E (8) = T (4), so D is 6 and you must carry a one to the tens column. The carried 1 + N (5) + H = E (8), so H is 2.

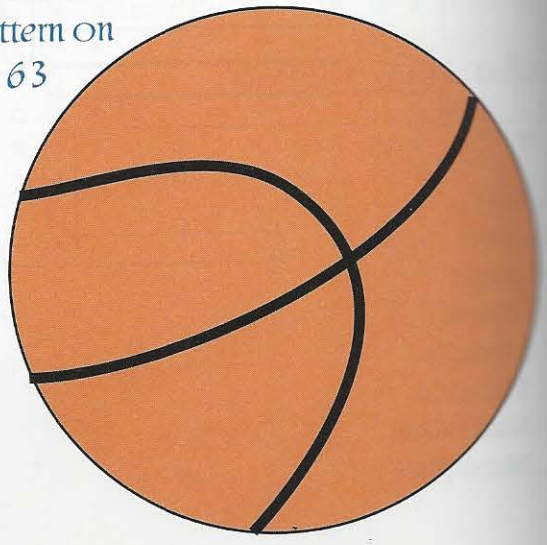
School Maze · Pg 58



Sports Mobile Patterns · Pg 35



Tennis Ball pattern on pg 63



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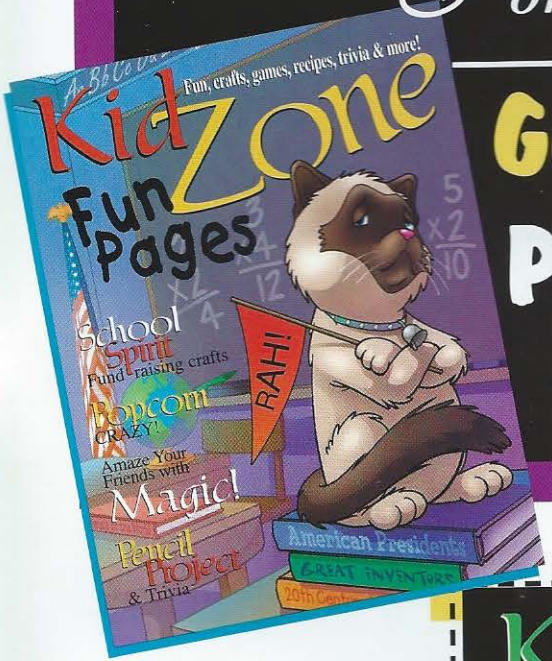

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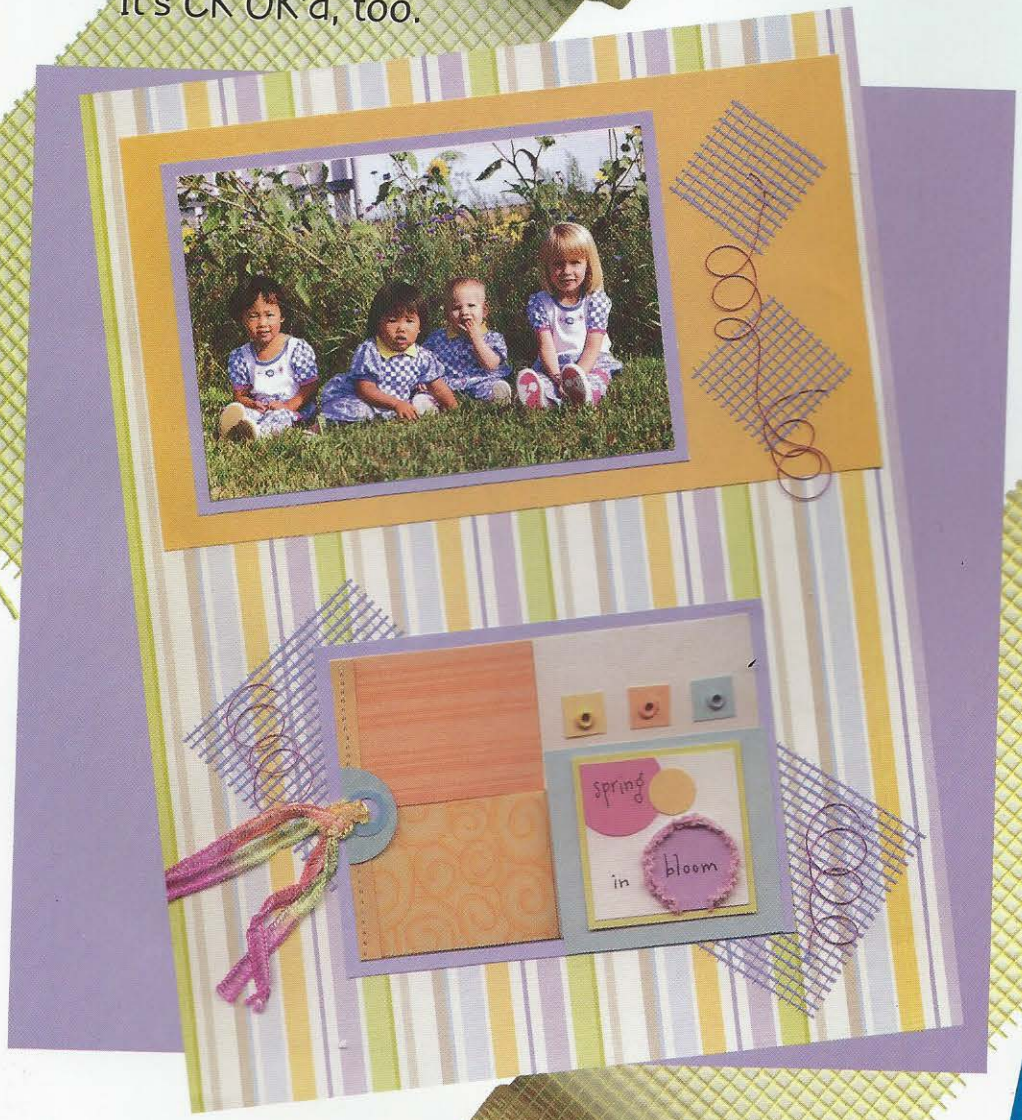

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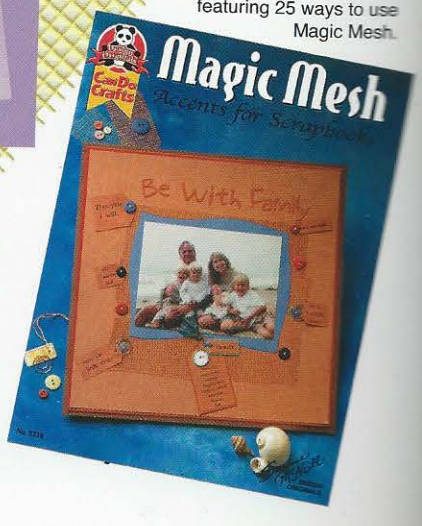

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